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*The*  
**CHEMIST AND DRUGGIST**  
*for RETAILER - WHOLESALE - MANUFACTURER*

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

No. 3172  
VOL. CXXXIII

NOVEMBER 23, 1940

Annual Subscription (with  
Diary) 25/- Single Copies 9d.

**MACFARLAN'S**



**ALOIN B.P.**

We have recently worked out a new process for the manufacture of this product and we invite you to compare our product with others on the market.

We have ample stocks at present, but the market for the raw material is very firm.

**J. F. MACFARLAN & CO.**

*Established 1780*

**8 ELSTREE WAY • BOREHAM WOOD • HERTS.**

Telephone : ELSTREE 2231

109 Abbeyhill, Edinburgh 8. Works : Abbeyhill and Northfield



*Through four generations  
Wright's has given  
protection against  
infection*



Recommend your  
customers to send  
a box in their next  
gift parcel



**WRIGHT'S**  
*Coal Tar Soap*

Proprietors:  
WRIGHT, LAYMAN & UMNEY LTD.  
Established over 70 years



*The Standard of Reliability*



**PEPPERMINT OILS**  
 ENGLISH • AMERICAN • JAPANESE • CHINESE  
 Also expertly prepared blends of matured oils for special purposes

**Staff Allens**

STAFFORD ALLEN & SONS LTD

WHARF ROAD, LONDON, N.1 • Phone CLerkenwell 1000 (7 lines)





# SPECIAL *Bonus* OFFER!

12 PACKETS OF  
ear  pax  
*free!*



**WITH EVERY ORDER OF PROPAX  
FOR 1 DOZ. LARGE & 1 DOZ. SMALL**

Here's a timely offer. Nerve-strain and loss of sleep encourage the formation of poisons in the system. Poisons encourage all kinds of pain. Propax gets rid of pain and poisons too—it's equally effective for headaches, 'flu, colds, neuralgia, neuritis, rheumatism, nerve pains and those physical stresses to which women are subject. It forms no habit and leaves no ill effect.

It's safe and sure. With every order of one dozen large and one dozen small Propax come twelve *free* packets of Earpax — and Earpax are non-disintegrating earplugs specially designed to guard against the noise and shock that cause fatigue under raid conditions. These two lines have developed strong sales all over the country—they can be relied upon for rapid turnover. And the bonus offer gives an extra profit on prompt orders.



#### FORMULA

Acid, Acetylsalicyl	...	GR. 3.5
Para-acet-phenetin	...	GR. 2.0
Trimethylxanthine	...	GR. 0.5
Dihydrodiphenylphthalide	...	GR. 0.166
No proprietary rights are claimed in the preparation of this product.		

#### TRADE TERMS

Wholesale	22/6 doz.	Retail 2/6
Wholesale	13/3 doz.	Retail 1/5
Including Purchase Tax		

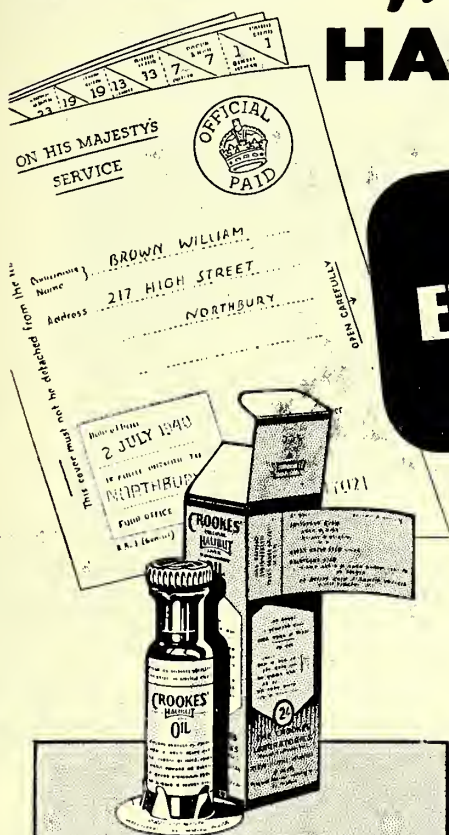
# PROPAX

BRAND

SOLE DISTRIBUTORS: SPLENDOR LTD., 5, BEASTMARKET HILL, NOTTINGHAM



# STOCK UP *Now* FOR THE HALIBUT OIL SEASON



**RATIONING WILL CREATE  
EVEN BIGGER DEMAND  
THIS WINTER**

**T**HE rationing of margarine as well as butter — with its consequent restriction of essential vitamins — will make this winter a bigger Halibut Oil Season than ever. There is an urgent need for new, unrestricted sources of the essential Vitamins, and more people than ever are turning to Crookes' Halibut Oil, one of the richest sources of the natural Vitamins A and D. Crookes' Halibut Oil is 80 times richer in Vitamin A and 30 times richer in Vitamin D than fine cod liver oil. Tell your customers about it — modern housewives understand Vitamins and their importance in maintaining family health.

## EXTRA 2½% BONUS

### CROOKES' WAR SAVINGS CERTIFICATE EXTRA BONUS SCHEME

An extra bonus of 2½% — payable in National Savings Certificates — is now available to chemists who are supporters of the Chemists Friends Movement and who hold or will buy at least one Certificate. Write to us for details.

## LARGE NATIONAL ADVERTISING CAMPAIGN WILL BUILD SALES FOR YOU

We are launching a big national advertising campaign emphasising the need for vitamins to counterbalance the effects of rationing. Our advertising this season will show how the vitamins in Crookes' Halibut Oil take the place of the vitamins in rationed butter and margarine. The demand this winter should build big sales for you — study our bonus terms and let us have your order now.

### CROOKES' BONUS TERMS

*Offered in return for displays*

ORDER	DISCOUNT	BONUS
6 doz.	25% and 10%	2 per doz.
3 doz.	25% and 10%	1 per doz.
1 doz.	ORDINARY	1 per doz.

# Crookes' Halibut Oil

GUARANTEED AND STANDARDISED VITAMIN CONTENT

THE CROOKES LABORATORIES (British Colloids Ltd.) PARK ROYAL, LONDON, N.W.10  
Telephone: Willesden 6313 (5 lines)

Telegrams: Collosols, Harles, London

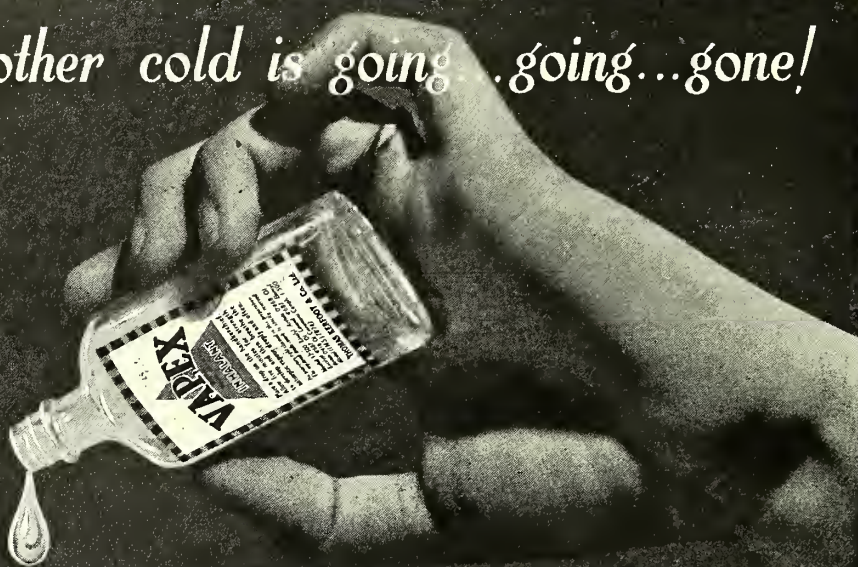
T.G.S.

B B



K KERFOOT K

*Another cold is going...going...gone!*

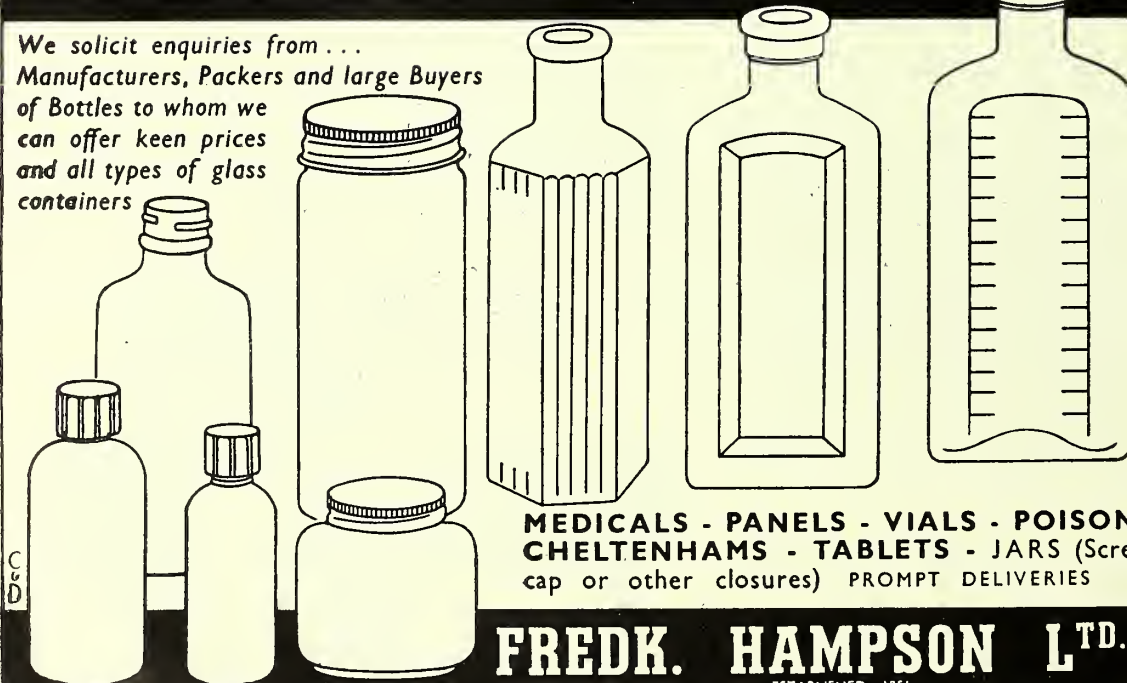


K  K

K THOMAS KERFOOT & CO. LTD. K  
Vale of Bardsley . . . Lancashire

## BOTTLES...with Selling Power!

We solicit enquiries from...  
Manufacturers, Packers and large Buyers  
of Bottles to whom we  
can offer keen prices  
and all types of glass  
containers



MEDICALS - PANELS - VIALS - POISONS  
CHELTENHAM - TABLETS - JARS (Screw  
cap or other closures) PROMPT DELIVERIES

**FREDK. HAMPSON LTD.**

ESTABLISHED 1851

PERSEVERANCE GLASS WORKS SALFORD. 5

TELEPHONE: TRAFFORD PARK 0814-5

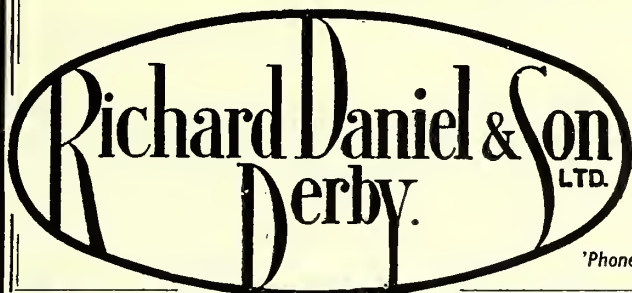


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MANUFACTURERS OF


**TABLETS  
& PILLS**
**INFLUENZA TABLETS**

Bottles of 25

7/- per dozen

'Phone: DERBY 4266/7/8

'Grams: "DANIA" DERBY

**CALVERT'S**
**TOOTH**

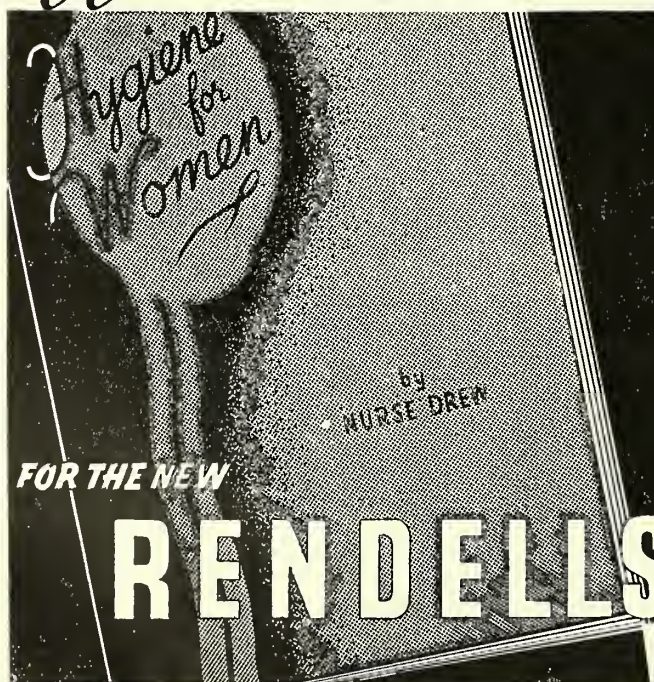
**POWDER**
*- for Carefree Teeth!*



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*A* **BOOKLET WHICH IS Your SALESMAN**



Our advertising is directed solely for securing the maximum number of requests for Nurse Drew's Booklet "Hygiene for Women". An essential feature of this Campaign is that such requests are directed to Chemists. Failure to supply means loss of sales, because the reading of the booklet is automatically followed by purchase of one or more Rendells' Products.

Write today for a free supply for counter use and the latest Chemists' Display Material.

**W. J. RENDELL LTD.,**  
Hardwick House,  
161/165, Rosebery Avenue, London,  
E.C.1.

**FOR THE NEW RENDELLS PRODUCTS**  
**FOR FEMININE HYGIENE**



# EXTRACTS

TINCTURES RESINOIDS  
OLEO-RESINS MEDICINAL RESINS

## CHLOROPHYLL

OIL, WATER, SPIRIT

ALSO

## CHLOROPHYLL MEDICINAL

(SUITABLE FOR TABLETS)

**WILLIAM RANSOM & SON**

ESTABLISHED 1846

*Ltd.*

*Manufacturing Chemists*

**HITCHIN** near **LONDON**



The Effective Treatment for  
**HÆMORRHOIDS**



HYGIENIC  
and  
CONVENIENT

Each Suppository is individually enclosed and sealed in a transparent case.

Slide boxes containing 12 Suppositories.

**13/5** RETAIL PRICE  
doz. P.A.T.A. 2/2

Prices include the Purchase Tax

**ARTHUR H. COX & CO. LTD. BRIGHTON**

Manufacturing Chemists since 1839

Makers of "ZOM" brand PILE CURE Tablets and PILE OINTMENT

**ARTHUR BERTON LTD.**  
"BRITANNIA HOUSE"  
256/260 Old Street, London, E.C.1

*have been, for over*

*90 years,*

*specialists in the*

*manufacture of*

**SURGICAL  
DRESSINGS**

**ZEAL**

**Clinicals**

*The Choice  
of Experts*

BRITISH  
MADE

NO HIGHER  
IN PRICE THAN  
NONDESCRIPT  
MAKES

Also Household, Bath  
and Works Thermometers,  
the best of their kind

**G. H. ZEAL LTD.**  
LOMBARD RD., MORDEN RD.,  
LONDON, S.W.19

Phone : Liberty 2283-4-5





BIG PROFIT LINES — BRITISH MADE — FOR CHEMISTS ONLY

# ANNOUNCEMENT

by

## WESTMINSTER LABORATORIES LTD.

	Present Retail Prices	NEW Retail Prices	Trade Price per doz. (unchanged)	Trade Price incl. Tax per doz.
<b>BROOKLAX</b> CHOCOLATE LAXATIVE and <b>BONOMINT</b> LAXATIVE CHEWING GUM	2d. 6d. 1/3	2½d. 7d. 1/5	1/4 4/- 10/-	1/6 <sup>2</sup> / <sub>3</sub> (3 doz. = 4/8) 4/8 11/8

### BROOKLAX & BONOMINT BONUS PARCELS

*(in consideration of Window and Counter Displays)*

A, B, C, D, G, H, K, L	42/- ea.	48/6 ea.	26/- ea.	30/8 ea.
M, N, O, P .. ..	66/- ea.	77/- ea.	40/- ea.	47/4 ea.
E, F .. ..	87/- ea.	100/6 ea.	52/- ea.	61/8 ea.

*If none of these parcels meets with your requirements, order quantities you want (minimum 30/8 including Tax), to qualify for Bonus*

<b>G. S. TABLETS</b>	2d.	2½d.	1/4	1/6 <sup>2</sup> / <sub>3</sub> (3 doz. = 4/8)
	7½d.	8½d.	5/-	5/10
	1/3	1/5	10/-	11/8
	2/6	2/9	20/-	23/4

**TERMS: 2½% C.W.O. or against invoice. Nett monthly**



**WESTMINSTER LABORATORIES LTD.**

4-12 Palmer Street, London. S.W.1

Telephone: Whitehall 2413 and 2414

**P.A.  
T.A.**

BIG PROFIT LINES — BRITISH MADE — FOR CHEMISTS ONLY

# THE DISTRIBUTORS OF

**'Alka-Seltzer'**  
EFFERVESCENT - ANALGESIC - ALKALIZING TABLETS

## REGRET TO ANNOUNCE

that owing to very heavy calls  
on their remaining stocks they will  
be unable to fill further orders

IT was explained in our announcement in these columns the week before last that further supplies of 'ALKA-SELTZER' brand tablets could not be imported, but that limited stocks were still available. This announcement brought such a volume of

orders that these stocks are now exhausted. We again thank all those whose goodwill and support have contributed to the success of 'ALKA-SELTZER' and hope that we may once more co-operate to our mutual benefit after the war is won.

*Sole Distributors*

DON S. MOMAND LTD., 10-15 CHITTY STREET, LONDON, W.1.





# An Important Announcement

CIBA LIMITED desire to inform their clients that, contrary to statements which to their knowledge have been widely circulated, **AMPLE SUPPLIES OF**

*Coramine* Trade Mark Registered  
*Brand of NIKETHAMIDE*

**ARE AVAILABLE.**

Coramine is now made in their Laboratories under Letters Patent and continuity of supply is assured.

*Ciba*  
**Limited**



**THE LABORATORIES, HORSHAM, SUSSEX**  
TELEPHONE: HORSHAM 1234. TELEGRAMS: CIBALABS, HORSHAM

# H A X SMASHING ASPIRIN PRICES

**NEW ASTONISHINGLY LOW ASPIRIN PRICES ENABLING  
YOU AFTER PAYING THE NEW PURCHASE TAX OF  
16 $\frac{2}{3}$ % TO SELL AT EVEN LOWER PRICES THAN BEFORE**

<b>SUGGESTED 9d. LINE</b> 100 TABLETS	Your Cost Price per Gross .. .. .	60/-
	Add 16 $\frac{2}{3}$ % for Purchase Tax .. .. .	10/-
	Your Actual Cost Price .. .. .	<u>70/-</u> GROSS
PACKED STANDS $\frac{1}{2}$ DOZ.	Or Per Stand of $\frac{1}{2}$ doz. .. .. .	2/6
	Add 16 $\frac{2}{3}$ % for Purchase Tax .. .. .	5
	Your Actual Cost Price .. .. .	<u>2/11</u> $\frac{1}{2}$ DOZ.
<b>SUGGESTED 6d. LINE</b> 50 TABLETS	Your Cost Price per Gross .. .. .	41/-
	Add 16 $\frac{2}{3}$ % for Purchase Tax .. .. .	6/10
	Your Actual Cost Price .. .. .	<u>47/10</u> GROSS
PACKED STANDS 1 DOZ.	Or per Stand of 1 doz. .. .. .	3/5
	Add 16 $\frac{2}{3}$ % for Purchase Tax .. .. .	7
	Your Actual Cost Price .. .. .	<u>4/-</u> 1 DOZ.
<b>SUGGESTED 3d. LINE</b> 25 TABLETS	Your Cost Price per Gross .. .. .	20/6
	Add 16 $\frac{2}{3}$ % for Purchase Tax .. .. .	3/5
	Your Actual Cost Price .. .. .	<u>23/11</u> GROSS
PACKED STANDS 2 DOZ.	Or per Stand or Card of 2 doz... .. .	3/5
	Add 16 $\frac{2}{3}$ % for Purchase Tax .. .. .	7
	Your Actual Cost Price .. .. .	<u>4/-</u> 2 DOZ.
<b>SUGGESTED 2d. LINE</b> 12 TABLETS	Your Cost Price per Gross .. .. .	12/-
	Add 16 $\frac{2}{3}$ % for Purchase Tax .. .. .	2/-
	Your Actual Cost Price .. .. .	<u>14/-</u> GROSS
STANDS OR CARDS OF 2 DOZ.	Or Per Stand or Card of 2 doz... .. .	2/-
	Add 16 $\frac{2}{3}$ % for Purchase Tax .. .. .	4
	Your Actual Cost Price .. .. .	<u>2/4</u> 2 DOZ.
<b>SUGGESTED 1d. LINE</b> 5 TABLETS	Your Cost Price per Gross .. .. .	6/-
	Add 16 $\frac{2}{3}$ % for Purchase Tax .. .. .	1/-
	Your Actual Cost Price .. .. .	<u>7/-</u> GROSS
STANDS OR CARDS OF 3 DOZ.	Or per Stand or Card of 3 doz... .. .	1/6
	Add 16 $\frac{2}{3}$ % for Purchase Tax .. .. .	3
	Your Actual Cost Price .. .. .	<u>1/9</u> 3 DOZ.

**EVERY TABLET FULL FIVE GRAIN. BRITISH PHARMACOPOEIA STANDARD**  
SUPPLIED IN OUR EXCLUSIVE BLACK AND WHITE CONTAINERS AND SHOWCARDS

Honestly—where can you buy aspirins cheaper? We do not know. Our prices were higher in pre-war days, and then we were always considered to be easily the cheapest in England—apart from the exclusive pack and the Pharmacopoeia standard of the aspirins.

**OBTAINABLE FROM EVERY WHOLESALE CHEMIST IN GREAT BRITAIN**

Registered Wholesale Houses only supplied direct by

**EDWARD HACK LTD. WALNUT TREE CLOSE**  
**GUILDFORD, SURREY** TELEPHONE: GUILDFORD 2401-2-3



# No Purchase Tax on BEMAX

Vitamins Ltd. wish to inform their trade customers that BEMAX, being a natural *non-medicated* vitamin food, is not subject to Purchase Tax.

Orders for Bemax should be addressed to the Sales Agents, Messrs. J. C. Eno Ltd., Veno Building, Chester Road, Manchester, 16, but the undermentioned products should be ordered through usual wholesaler or direct from Vitamins Ltd.

The undermentioned Pharmaceutical lines being subject to Purchase Tax, the prices, with Tax included, are now :

## BEFORTISS (Vitamin B)

$\frac{1}{2}$ gm. TABLETS				
100 i.u.	{	100's	- - -	6/8
		50's	- - -	3/11
1 mg.	{	100's	- - -	17/9
		50's	- - -	11/1
AMPOULES				
2 mg.	{	6's	- - -	8/4
		12's	- - -	15/7
	{	3's	- - -	10/7
10 mg.	{	6's	- - -	19/5
		12's	- - -	36/1

## COMPLEVITE

120's	- - -	5/-
60's	- - -	2/10

## PREGNAVITE

120's	- - -	5/-
60's	- - -	2/10

## \* FERTIOL (Wheat Germ Oil)

100's	- - -	15/-
25's	- - -	4/6

\* Fertiol prices recently reduced.

Issued by Vitamins Limited



23 Upper Mall, London, W.6

**WE ARE PLEASED TO ANNOUNCE  
that supplies of the famous**

**'MAC' ANTISEPTIC  
throat sweets**  
**are now available**  
**IN THE 7<sup>D</sup> SIZE ONLY**  
(including Purchase Tax)

To ensure that your customers obtain this product in its best condition we recommend that you order only sufficient stock to cover your requirements for a period of *not more than 2 months at a time.*

We hope to meet all reasonable requirements during the forthcoming Season but must ask our customers' indulgence if quantities in excess of last year's orders have to be restricted.

**We would draw your attention to the NEW Terms for  
'MAC' BRAND ANTISEPTIC THROAT SWEETS in our  
new price list sent to you recently.**

**Don't have a throat—have a 'MAC'**

**MACLEANS LTD., GREAT WEST ROAD, BRENTFORD, MIDDLESEX**



# SUPPLYING A VITAL WARTIME NECESSITY

**MANESTY**  
All-British

**AUTOMATIC WATER STILLS**

*for Chemically Pure*

## DISTILLED WATER

Whilst our output is greatly restricted by war work we can still supply the famous range of

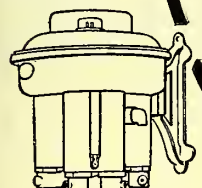
### MANESTY AUTOMATIC WATER STILLS

The latest models are the "OOA" Gas and Electric, with an output of seven to eight pints of distilled water per hour.

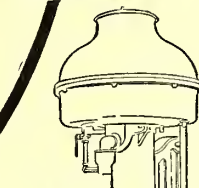
All the latest Manesty Water Stills have several new features, including the Pyrex Glass Cover, Pyrex Glass Triple Vapour Baffle, and new Automatic Water Feed Regulator.

**ENTIRELY BRITISH MADE**

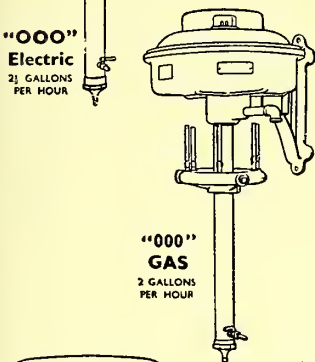
"OOA"  
GAS  
7 to 8  
PINTS  
PER HOUR



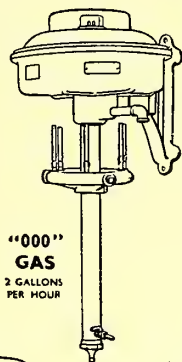
"OOA"  
Electric  
7 to 8  
PINTS  
PER HOUR



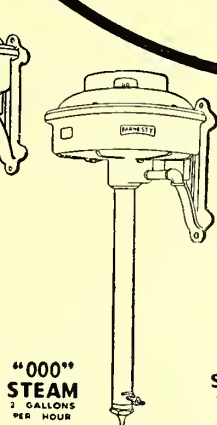
"OOO"  
Electric  
2½ GALLONS  
PER HOUR



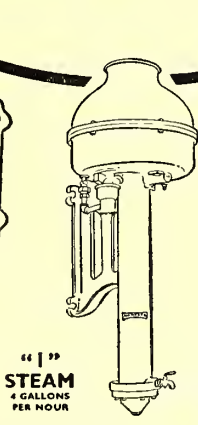
"OOO"  
GAS  
2 GALLONS  
PER HOUR



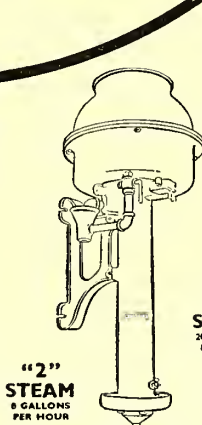
"OOO"  
STEAM  
2 GALLONS  
PER HOUR



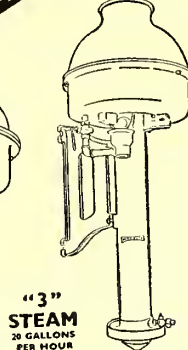
"1"  
STEAM  
4 GALLONS  
PER HOUR



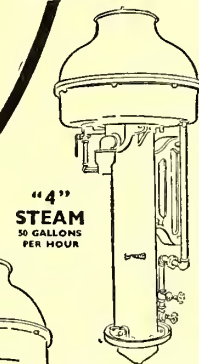
"2"  
STEAM  
8 GALLONS  
PER HOUR



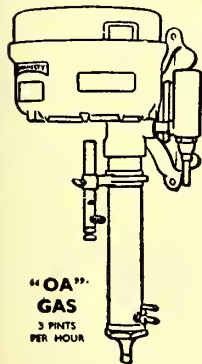
"3"  
STEAM  
20 GALLONS  
PER HOUR



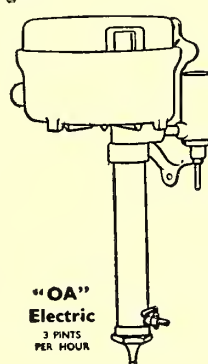
"4"  
STEAM  
50 GALLONS  
PER HOUR



"OA"  
GAS  
3 PINTS  
PER HOUR



"OA"  
Electric  
3 PINTS  
PER HOUR



**MANESTY WATER STILLS ARE MADE IN 12 DISTINCT MODELS OPERATING BY GAS, STEAM, ELECTRICITY, OR PARAFFIN, WITH OUTPUTS VARYING FROM 3 PINTS TO 50 GALLONS PER HOUR.**

Send a postcard and we will send you particulars of any or all of these Stills.

# MANESTY MACHINES LTD.

5 SPEKE HALL ROAD  
LIVERPOOL 19

Telephone: Garston 1511

Telegrams: MANESTY, LIVERPOOL

# Wholesale Price unchanged!

## IN SPITE OF PURCHASE TAX

Hinds are pleased to announce that in spite of purchase tax and war supply restrictions, their famous honey and almond hand cream is keeping its wholesale price at pre-war level, and quality up to pre-war excellence.

New Retail Prices including Tax 7½<sup>d</sup>, 1/3 and 2/6

Trade Prices as before 4/6, 8/- and 16/- doz.  
(Parcel Terms as before)

**HINDS** *Honey & Almond* **CREAM**

**IN TUBE OR BOTTLE**

*From your usual wholesaler or direct from :*  
LYSOL LIMITED, RAYNES PARK, S.W.20. Liberty 2233.



Dr. Thompson's

## Dandelion Coffee

*for Dyspepsia*

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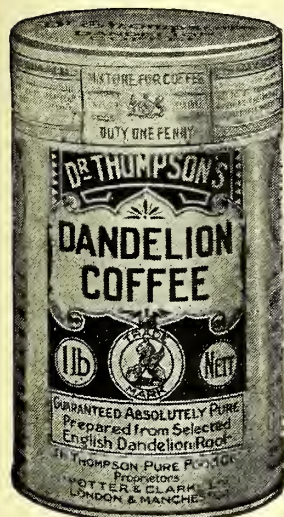
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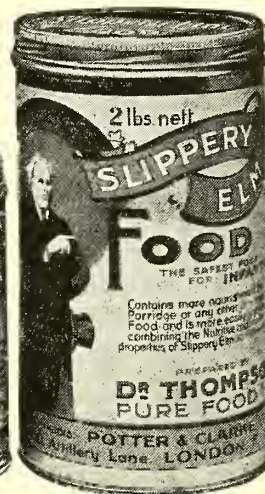
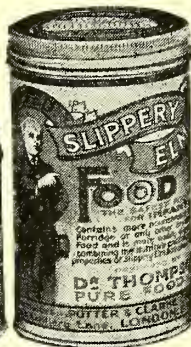
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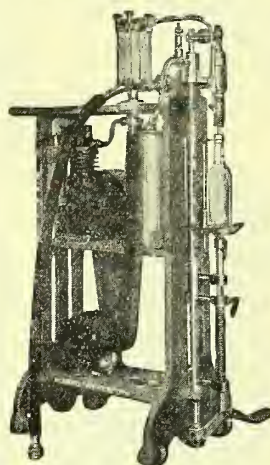
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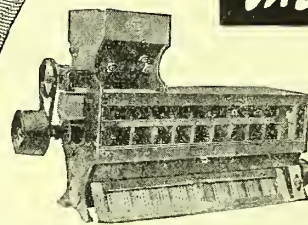
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# SCOTTS Brand EMULSION

## and the PURCHASE TAX

On October 21 Scott & Bowne, Ltd., issued a new wholesale Trade Price List detailing new terms for SCOTTS Brand EMULSION *including Purchase Tax*.

At the last moment Emulsion of Cod Liver Oil was exempted from Tax and upon enquiry of the Customs and Excise a ruling was given that SCOTTS Brand EMULSION was exempt. This ruling has now been reversed by the Customs and Excise Authorities and the new terms referred to above and detailed below must be put into force.

Scott & Bowne, Ltd., sincerely regret the inconvenience which has been caused to their friends in the Trade by these changes.

### New Terms for SCOTTS Brand EMULSION

	<i>Trial</i>	<i>Medium</i>	<i>Large</i>
Retail Prices (including Tax) .. .. .	1/6	3/6	5/6
"Smalls" through Wholesaler .. .. .	12/8 doz.	29/8 doz.	46/6 doz.
Direct Parcel Terms to nett value of 45/- .. .. .	11/11 "	27/10 "	43/6 "
Direct Parcel Terms to nett value of £5 .. .. .	11/1 "	26/- "	40/6 "
Purchase Tax must be added calculated at 16 $\frac{2}{3}$ per cent. on "Smalls" price .. .. .	2/1 $\frac{1}{3}$ "	4/11 $\frac{1}{3}$ "	7/9 "

### New Terms for KEMDEX DENTURE CLEANSER

	<i>Small</i>	<i>Large</i>
Retail Prices (including Tax) .. .. .	1/3	2/3
"Smalls" Price per dozen .. .. .	9/-	16/2
Direct Parcel Terms .. .. .	8/-	14/5
Purchase Tax must be added calculated at 33 $\frac{1}{3}$ per cent. on "Smalls" .. .. .	3/-	5/4 $\frac{2}{3}$

N.B.—In the case of the large size we have reduced our price so that with the addition of Purchase Tax the Retail Selling Price is increased by 3d. only.

Other Scott & Bowne Preparations **Not Subject to Purchase Tax** (according to the latest decisions of the Customs and Excise, as published in the C. & D.).

<i>"HALIVITE" (Scotts Halibut Liver Oil)</i>				<i>Retail Prices</i>		
In Liquid Form .. .. .	5 c.c.	2/-	15 c.c.	5/-	30 c.c.	9/-
In Pill Form .. .. .	30's tins	2/6	50's bottles	3/9	100's bottles	7/-
SCOTTS MALT AND OIL .. .. .	10 oz.	1/9	20 oz.	3/-		

**Terms:** "Smalls" through Wholesaler Retail Price less 25 per cent.  
Special Display Terms Retail Price, less 33 $\frac{1}{3}$  per cent. (Minimum Parcel, 1 dozen).

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## NEWS OF THE WEEK

**Drawback on Vacuum Flasks.**—An Order relating to the drawback exported vacuum flasks has recently been issued by the Treasury Import Duties (Drawback) (No. 9) Order, 1940; S.R. & O. 1945. The Order came into operation on November 13.

**Warwickshire Meetings to Continue.**—The Warwickshire Branch of the National Pharmaceutical Union decided, recently, to continue its meetings during the winter months. The secretary was instructed to urge members appealing for aid to the N.P.U. War Distress Fund.

**Prizes Given for Spitfire Fund Draw.**—Mr. R. H. Banks, M.P.S., Compstall Road, Romiley, Cheshire, has given to the organisers of the Bredbury and Romiley Spitfire fund Christmas draw, for use as prizes, a first-aid cabinet value £1 1s. and a "Christmas-week cruise and the Norwegian fiords, calling at Ostend and Boulogne—otherwise a bottle of cod liver oil."

**"Square" Association.**—The following have been elected officers of the committee: Mr. R. V. Lloyd, *President*; Mr. R. V. Wagg, *Treasurer*; Mr. I. Michaels, *Secretary*; Mrs. R. V. Lloyd and Messrs. H. J. H. Oakley, and G. B. West, *Committee*. Tickets for the annual dinner, to be held on December 11, may be obtained from the Secretary, University College, Cathays Park, Cardiff, price 8s. 6d. each.

**Inquests.**—At Liverpool, recently, a verdict of death from barbitone poisoning was recorded at an inquest on a woman. It was stated by a medical practitioner that he had prescribed the drug in moderate doses. There was no evidence to show how the overdose was taken.—At Warrington, recently, a verdict of death by misadventure was recorded in the case of a fourteen months' old baby whose death was due to eating nine tablets.

**Gift to Commemorate Centenary.**—A permanent reminder of the centenary of Robinson and Sons (Chesterfield), Ltd., Chesterfield, which was celebrated in July 1939 (see *C. & D.*, 1939, II, 88), now stands at the old House, Bradbury Hall, the firm's welfare centre. It is a doorway, with wrought-iron grille incorporating the firm's stag trade mark and the figures 1839-1939, and is the gift of the employees to the directors. The day in erecting the memorial has been due to the war.

**Crosby Annual Meeting.**—The annual meeting of the Crosby Pharmacists' Association was held on November 13. The report was presented and adopted. The financial statement showed a surplus, and sums of £3 3s. were voted to the Society's Benevolent Fund and the National Pharmaceutical Union War Distress Fund. Mr. H. A. Pringle was elected *President*, and Mr. A. H. Pattison *Vice-President*. The *Treasurer* (Mrs. Wilkinson) and *Secretary* (Mr. D. Rich, 30 Coronation Drive, Crosby) were re-elected.

**Mutual Assistance Scheme at Walsall.**—A scheme designed to ensure continuity of service to the public should a chemist's premises become damaged or demolished through enemy action has been agreed upon by chemists in Walsall. Practically everyone is a member. If his pharmacy is hit he is immediately provided by his fellow members with stock sufficient to carry him over until his regular deliveries arrive. Each member is provided with a list of stock which he would be required to deliver to a victim immediately a request is made for it. He is also given a set of lists of other chemists. The recipient of assistance has the option, at the end of a given period, either of returning the goods supplied or of paying for them.

**In the Courts.**—At the Guildhall, London, on November 11, Conratted Foods, Ltd., Langham Street, W., were summoned for selling sugar-alternative liquid bearing a label which, it was alleged, falsely described it. It was stated for the prosecution that the preparation was called Sugarette, the contents of each bottle being equal, according to the label, to 2 lb. of sugar. The public analyst had certified that the contents were deficient in sweetening power to the extent of

66 per cent. A fine of £5 was imposed.—At West Hartlepool, recently, a charwoman employed by Thomas Clarkson, chemist, was fined 40s. for the theft of various articles from the firm.—At Skegness, recently, Mr. D. R. Hudson, M.P.S., was fined 10s. for leaving his van in the street after lighting-up time without the lamps alight.

**Nitric Acid Production.**—The Ministry of Supply has issued the Control of Nitric Acid (No. 1) Order, 1940, which requires producers to be licensed by the Minister. The Order takes effect from December 2. Application for licences should be made to the Ministry of Supply, Industrial Ammonia Control, 19 Berkeley Square, Bristol 8.

**British Colour Makers' Association.**—At the annual general meeting of the Association recently, the following officers and council were elected: *Chairman*, Mr. J. B. Dunn (Champion, Druce & Co., Ltd.); *Vice-Chairman*, Mr. J. Crombie (James Anderson & Co. (Colours), Ltd.); *Treasurer*, Mr. C. G. A. Cowan (Cowan Bros. (Stratford), Ltd.); *Council*: James Anderson & Co. (Colours), Ltd. (Mr. J. Crombie), Lewis Berger & Sons, Ltd. (Mr. H. Ralph), Champion, Druce & Co., Ltd. (Mr. J. B. Dunn), I.C.I. (Dyestuffs), Ltd. (Mr. T. Taylor), and J. W. & T. A. Smith, Ltd. (Mr. K. Burrell), elected; and Cornbrook Chemical Co., Ltd. (Mr. H. G. Ferguson), and the Golden Valley Ochre & Oxide (Colours) Co., Ltd. (Mr. A. H. Orchard), co-opted; *Secretary*, Mr. Allan J. Holden, B.Sc., F.I.C.

**Closing Hours.**—Wallasey Pharmacists' Association and Branch have decided that chemists' shops locally shall close at 6 p.m. each week-day; dispensing service for urgent medicines will remain as previously.—A letter signed by several multiple chemists with premises in the central area of Bury has been sent to the local Insurance Committee asking for a 6 p.m. closing on week-days and 7 p.m. on Saturdays; the Committee has allowed the earlier closing hours until the end of March.—Blackpool Insurance Committee has decided that dispensing hours for insurance prescriptions shall be from 5.30 to 6.30 p.m. during the present emergency; some local doctors have revised their surgery hours to 5 p.m. to 6 p.m.—Blackburn Town Council on November 15 approved an order enabling retail shops to close at 7 p.m. on Mondays, Tuesdays and Wednesdays, and 8 p.m. on Fridays and Saturdays till March 2.—Darwen Corporation has fixed the following closing hours: 7 p.m., Mondays, Wednesdays, and Saturdays; 8 p.m., Thursdays and Fridays; and 1 p.m., Tuesdays.

**Two Debates at Bradford.**—At a meeting of the Bradford Branch of the Pharmaceutical Society on November 14, Mr. W. W. Hudson presiding, motions "That remuneration from the practice of retail pharmacy is inadequate" and "That in return for pharmacists relinquishing prescribing the doctors should discontinue dispensing" were debated. An overwhelming vote favoured the first motion, but the second proposition was rejected. Mr. Cyril Carter spoke of the heavy liability of a student on his parents, and the meagreness of assistants' pay. No doubt proprietor chemists would say they were in no position to pay more, but this merely emphasised that the state of pharmacy was wrong. Mr. Raine seconded. Mr. F. C. Wilson (a member of the Society's Council) agreed it was difficult to convince any chemist that he was getting as much as he ought, but quoted statistics from the report of the committee of inquiry to show that pharmacies with turnovers from £500 to over £5,000 per annum were common, and that managerial salaries in a series of 750 shops averaged £442 per annum. He gave an analysis of the financial position of 1,254 shops in turnover, managerial salaries and equivalents for managing proprietors. Mr. Kitching, supporting the opposition, said chemists, like anybody else, had to earn what they got, and if they were underpaid it was largely because they took the easy line rather than one leading to better pay. Mr. E. Petyt felt the key to the situation was that those who complained were employees, and the defenders the master-chemists. Mr. J. A. Myers argued that pharmacy profits, in relation to money laid out, bore no



comparison with other trades. Mr. B. Whitaker thought there might be as much money in pharmacy as ever, but it was in fewer hands. Mr. Craven suggested the chemist's misfortune was to be a cross between professional man and trader; this factor had been used to his disadvantage by the Government in negotiating N.H.I. terms, which allowed the chemist neither a professional fee for service nor a trader's profit for retailing. Mr. Eric Robinson felt that the Pharmaceutical Society should long ago have secured limitation of entry into pharmacy, and that the National Pharmaceutical Union should control the sale of proprietaries. Mr. Carter, replying, urged limitation of medicinal specialities. Mr. Wilson said the Pharmaceutical Society had no power to refuse registration where qualifications were correct, and the N.P.U. would no doubt be delighted, if it could, to get power to control proprietaries.

Opening in the second debate, Mr. Kitching said pharmacists took a great risk in doing any prescribing, for which they had had no training. It was encroachment on another profession, and liable to bring discredit on chemists. Mr. Myers led the opposition on four points: That the doctor's right to dispense protected public welfare by ensuring prompt supply of medicines in case of emergency; that the doctor must hold the public's confidence in his ability to give complete treatment; that as one effect of the separation stocking of packed lines would become "offering or prescribing" a medicine; and that the chemist would be blind if he failed to recognise how therapeutics, vitamins, vaccines, massage and surgical advances were steadily replacing dispensing. Mr. Flanagan supported the opposition on the ground that it was impossible to make a fine distinction between prescribing by offering a treatment and dispensing by making and selling a medicine.

## IRELAND

**Long Service Appreciation.**—At a recent meeting in Belfast of the Presbyterian Church Sustentation Fund, it was reported that Mr. Samuel McKinney, Ph.C., Oldtown, Cookstown, co. Tyrone, had given over sixty years' service as the Fund's agent in the Third Cookstown Congregation. The Moderator was requested to write to thank Mr. McKinney for his much appreciated help.

**Irish Drug Association.**—Mr. P. F. McGrath (president) was in the chair at a meeting of the committee of the Irish Drug Association held on November 4. On the motion of Mr. P. A. Brady, seconded by Mr. F. X. Meagher, Messrs. David Woulfe, Grafton Street, Dublin, and J. D. Murphy, Lower Dorset Street, Dublin, were co-opted to fill vacancies on the committee. The president, vice-president, and Messrs. A. J. Donnell, and Brendan Smith were appointed a subcommittee to deal with prices of articles commonly sold by traders other than chemists, and to meet representatives of a wholesale house. The committee considered queries concerning businesses declared to be

exempted under the section of the Shops (Hours of Trading) Act, 1933 dealing with half-holiday closing. In addition to exemptions given by the Order recently made by the Minister for Industry and Commerce the Act contains a Schedule of businesses exempted from the half-holiday provisions. The effect now is that members who sell or stock non-exempted lines must have a half-holiday in each week, on which day only medicines, or medical or surgical appliances, can be sold. Businesses now exempted from Part II of the Shops (Hours of Trading) Act, 1938, and the Schedule include: *Schedule*: The businesses of selling newspapers, periodicals, books, magazines, stationery, tobacco and smokers' requisites. 1938 *Order*: The businesses of lending for reward books or periodicals, photographic requisites, souvenirs, toilet soap, perfumes, cosmetics, hair-brushes, tooth-brushes, nail-brushes, tooth-pastes, hair oils, razor blades, or any other toilet requisites. Selling medicines, or medical or surgical appliances. Selling groceries, etc. Selling commodities for washing and cleaning, or disinfectants (including insecticides, vermicides, and fungicides), etc. Selling polishes or polishing brushes. 1940 *Order*: Selling rat, mice or rabbit poison, or other vermicides, fly papers, preventives, weed and slug killers, sprayers for use with insecticides, animal marking fluids, electric pocket lamps and accessories, hot water bottles, vacuum flasks, babies' feeding bottles, teats, soothers, food warmers and solid fuel; razor strops and sharpeners; dyes in bottles, receiving photographic apparatus for repair and photographic goods for processing, returning photographic goods after repair or processing.

## SCOTLAND

**War Weapons Contribution.**—Fairy Dyes, Ltd., have contributed £5,000 to Glasgow's War Weapon Week.

**Delivered to Time.**—A correspondent writes: "The C. & D. continues to arrive in Scotland with well up to pre-war regularity. In appearance and contents there has been no appreciable change."

**Dingwall Shopkeepers' Association.**—An Association has been formed at Dingwall, for the protection of trade interests. Mr. W. Macfarquhar, M.P.S., has been appointed to represent chemists on the executive committee.

**Purchase Tax Basis Protests.**—Co-operative drug departments in Scotland are joining with English stores in a joint protest against the method adopted by proprietary medicine manufacturers by which they charge on the wholesale price inclusive of the Medicine Stamp Duty.

Another point about which protest is made is that these firms have advised their clients that the wholesale value on which the purchase tax will be levied will be the ordinary per-doz. price. The rate applicable to small buyers.

# TOPICAL REFLECTIONS

**Gifts and Services.**—Your first editorial article on p. 265, read in conjunction with the third item in the accompanying Parliamentary News (p. 261) suggests a question in addition to those you have appropriately asked. Is not the free distribution of medicaments and the free rendering of service by pharmacists being overdone? The Minister of Health has stated in Parliament that whatever is, according to the advice he obtains, necessary in the way of "appliances and drugs" will be available for free distribution in public shelters used at night; and the Pharmaceutical Society, in a letter from its secretary to Metropolitan borough councils, has offered service in shelters by pharmacists in business "on a voluntary basis." As is well known, commodities obtained free of charge are not as a rule much valued by their recipients. If, therefore, it is not possible to discriminate in shelters between the occupants who can afford to pay for appliances and drugs and those who cannot, a collecting box might at least be placed in a convenient spot for contributions to an approved fund from those who dislike becoming the recipients of charity. As for the service of pharmacists, are there not enough qualified people thrown out of employment by enemy action to provide a paid staff to do work of the kind proposed? One would have supposed that the energy of pharmacists in business in raided areas is taxed to the utmost in carrying on under present conditions, leaving them neither the time nor the energy to work in shelters after business hours. It will be noticed that a scale of payment for medical men attending in shelters has already been drawn up. Are the services of pharmacists valueless?

**Codex Formulas.**—The Pharmaceutical Society's Council has signalled its choice of Derby as a place of refuge by discussing a few matters of more than ordinary importance. One of these is the use of alternative ingredients in certain British Pharmaceutical Codex formulas. A word of caution may not be out of place. If it is made clear that the nine suggested changes are only war-time expedients, they will be accepted without much demur; but if they are to constitute an excuse for sweeping alterations, there will be general and legitimate

protests. A book of this kind circulates widely in the civilised world (and even the uncivilised may share in its use): this being the case, it is easy to foresee that trouble will follow if recognised preparations are changed in various details without the compulsion of urgent necessity. A typical example is the proposed substitution of zinc oxide for bismuth carbonate in the paste compounded with iodoform and liquid paraffin. This course may be justifiable as an expedient for the present emergency; if, however, it becomes a pretext for dropping bismuth carbonate from this type of paste, few medical men will, I think, be found willing to accept the decision without conclusive evidence of the superiority of the zinc salt. A principle is involved here that we shall do well to keep in mind. The use of bismuth carbonate in ointments and the like goes back a good deal farther than the devising of the "B.I.P.P." formula. This is but one example of the desirability of securing clinical tests before "scrapping" an old and tried medicament.

**N.H.I. and the Purchase Tax.**—The point you have raised on p. 265 regarding the incidence of the purchase tax on National Health Insurance dispensing needs pressing on the attention of the authorities concerned. Some chemists may, as you suggest, have laid in adequate stocks of ordinary ingredients before the tax came into force; but surely they must, in these days of hand-to-mouth buying, form a small and almost negligible fraction of the number under contract to dispense insurance prescriptions. If some are already being credited with amounts paid in consequence of the coming into force of the tax, the fact is satisfactory so far as it goes. The resultant book-keeping will, however, be onerous out of all proportion to the amounts thus recovered. On the basis of your estimate that the capital locked up in stock used for N.H.I. dispensing "has increased by at least one-sixth" of the wholesale value of such stock, I venture to suggest that the simplest way to short-circuit this complex calculation of values will be to add, on and after a given date, one-sixth (or more, if that is an underestimate) to the total value of the drugs when pricing each insurance prescription.

Xrayser



# PHARMACEUTICAL SOCIETY OF IRELAND

MEETING of the Council of the Pharmaceutical Society of Ireland was held at 67 Lower Mount Street, Dublin, on November 12, the President (Mr. Patrick C. Cahill) in the chair. Other members present were Sir T. Robinson, Messrs. J. Gleeson, F. J. Fitzpatrick, P. A. Brady, A. Mitchell, D. W. P. Boyd, P. Brooke-Kelly, H. P. Corrigan, Duggan, C. J. Cremen, P. J. Fielding, B. P. Hickey, M. J. Kieran, A. O'Rourke, T. C. Scott and Miss F. M. Flood.

At the outset of the proceedings Mr. KIERAN said they had inadvertently omitted at their last meeting to express their sympathy with Mr. D. J. Nugent in his recent bereavement. He moved, therefore, that the deepest sympathy of the Council be offered to our former member Mr. D. J. Nugent on the death of his daughter."

MR. CREMEN seconded the motion which was passed in silence, all members standing.

Before the business on the agenda was taken Mr. FITZPATRICK said: "I was absent from the last meeting of the Council, the first October meeting I have missed since I joined the Council. I feel it is due to the members that I should return thanks for the confidence you have shown me by re-electing me as honorary treasurer. I would also like to be associated with the compliments accorded to you, Mr. President, to Mr. Gleeson, and Sir Thomas Robinson."

The following letter was read from Mr. David Daly, Chief Executive Officer, City of Cork Vocational Education Committee: "Following consideration by my Committee of your letter of September 14, a conference consisting of the chairman of the Vocational Education Committee, local Dail representatives, and members of the Cork and County Chemists' Association was held in the School of Art, Cork. After lengthy discussion at which various proposals were put forward, it was decided that Mr. P. J. Fielding should with your permission make a report bearing on the decision to the next meeting of your Council."

THE REGISTRAR (Mr. J. J. Kerr) informed the Council that a deputation consisting of Mr. A. R. Lester and Mr. J. D. Blair, Cork, had also arrived and wished to be received by the Council. No notification that they were coming had been received, although Mr. Lester said he understood it had been sent. After some discussion the Council decided to hear Mr. Lester and Mr. Blair, but before doing so heard a report from Mr. Fielding on the Cork meeting.

Mr. Lester and Mr. Blair were then received, and both addressed the Council in support of the application that the Crawford Municipal Technical Institute at Cork be recognised as a centre where southern students could take out their lectures in pharmacy. Having heard the views of the deputation THE PRESIDENT informed them that the Council would refer the matter to the Schools Committee for re-consideration. On the Schools Committee's report the matter would again come before the Council. The deputation then withdrew.

Mr. John J. Gaynor, law adviser, reported on the recent prosecution by the Society *v. Hally*. The Justice fined the defendant 5s. with 22s. costs. Reporting further on the Society's prosecutions against Mr. Parker, and his assistant Mr. Dolan, Mr. Gaynor wrote: "The defendants pleaded guilty and the Justice fined Mr. Parker £1 with 33s. costs. On an undertaking to pay £2 2s. costs the Justice applied the Probation Act in the summons against Mr. Dolan."

Mr. J. Bennet, L.P.S.I., area warden, No. 6 Area, and residing at 49 Highfield Road, Rathgar, wrote: "Bearing in mind the fact that many pharmacists in Dublin are willing to co-operate in A.R.P. work I make the following observation for your consideration: During an actual air raid all telephones other than those designated 'Priority' will be unable to make but may receive calls. As a pharmacist I think it essential that all pharmacies be so designated, and thereby be in a position to summon prompt aid for those needing special attention as quickly as possible. I suggest therefore that you communicate with the Department of Defence on the subject."

MR. CREMEN said that in an emergency if any people were injured there would be a rush into the nearest pharmacies, and it would be impossible to get ambulances, or prompt medical aid unless chemists had the use of their telephones.

THE PRESIDENT: We have a very good case for being given the use of our telephones as many pharmacies will be first-aid posts.

The Council decided to take up the matter with the A.R.P. authorities for all Ireland.

The following wrote submitting marriage certificates and desiring change of names in the Register: Mrs. R. A. Burke, M.P.S.I., Mrs. E. Nangle, M.P.S.I., and Mrs. M. Murphy, L.P.S.I. The applications were granted. The following changes of address were notified:—Mrs. R. A. Burke, M.P.S.I., née Tully, from The Square, Navan, co. Meath, to 17 Main Street, Cavan; Mr. G. Chambers, M.P.S.I., from Corravacan, Cortubber, Castleblayney, to 17 Innishmaan Road, Whitehall, Dublin; Mr. R. J. Curtis, M.P.S.I., from 59 Grand Parade, Cork, to 43 Grand Parade, Cork; Mr. A. E. Digan, M.P.S.I., from

Bury Quay, Tullamore, to Sutton Pharmacy, Sutton, co. Dublin; Mr. H. O'Donnell, M.P.S.I., from 6 and 7 Barrack Street, Cork, to 52 Cabra Road, Dublin; Mr. K. Matthews, M.P.S.I., from Reastown, Ardee, co. Louth, to 37 Park Street, Dundalk, co. Louth; Mr. J. J. Rohan, M.P.S.I., from c/o Sutton Pharmacy, Sutton, co. Dublin, to c/o 4 Cook Street, Cork; Miss M. Casserley, L.P.S.I., from Main Street, Ballinrobe, co. Mayo, to Main Street, Ballinasloe, co. Galway; Mr. P. S. Kelly, L.P.S.I., from Glanworth, co. Cork, to 9 Maretime Road, Blackrock, co. Dublin; Mrs. M. Murphy, L.P.S.I., née Brooks, from 81 St. Helens Road, Booterstown, to The Pharmacy, Mitchelstown, co. Cork; Mrs. J. Campbell, née Widess, from 10 Lansdowne Park, Limerick, to Chez Nous, Revington Park, Limerick.

The following who submitted matriculation certificates were granted Preliminary registration: Misses C. Edgeworth, F. V. Keane, A. W. O'Reilly, M. M. Bermingham, E. Cunniffe, G. Desmond, K. M. Flannelly, G. M. Gartlan, M. Hannan, M. Harty, M. B. Lehane, M. A. Lynch, E. Lyster, R. D. Mulligan, B. Murphy, M. P. Murphy, J. M. Nicell, M. M. P. Naughton, E. M. Morton, H. O'Keefe, E. M. Riordan, E. M. Tobin, and O. M. Welsh. Messrs. P. G. Garahy, D. J. Browne, N. A. Burns, J. C. Burns, H. R. Busby, J. P. Butler, M. O. P. Collins, P. J. Currihan, J. C. Deady, J. D. M. Delany, T. G. Griffin, D. Headon, O. F. Hennessy, C. A. Kennedy, M. F. Moore, P. Morris, F. O'Brien, J. J. E. O'Brien, J. W. O'Brien, D. O'Leary, P. O'Neill, and J. Staunton.

The reports of the House and Law Committees were submitted and approved.

DR. J. A. MITCHELL, the Council's representative on the Therapeutic Substances Advisory Committee, reported on the work of the Committee, and submitted papers on the Committee's work for the information of the Council.

The examiners reported on the recent Licence, Assistants, and R.D. examinations. For the Licence examination it was shown that twenty-four candidates entered, of which number nine passed. For the Assistants' examination twelve candidates presented themselves and eight were successful. The single candidate who entered for the R.D. examination failed.

On the motion of SIR T. ROBINSON, seconded by MR. J. DUGGAN, Dr. John Mackey and Mr. D. Warwick were re-elected Examiners in Pharmacy to the Licence examination for the year ending November 1, 1941.

On the motion of MR. SCOTT, seconded by MR. H. P. CORRIGAN, Professor A. O'Farrelly was re-elected Examiner in Chemistry to the Licence examination for the year ending November 1, 1941.

Mr. Malachy J. O'Callaghan was appointed Examiner for the Registered Druggist examination for the year ending November 1, 1940, on the motion of MR. O'Rourke, seconded by MR. BRADY.

The following were elected members of the Society: Misses M. A. Flynn and N. C. Dowling, and Mr. M. Rooney. The following were nominated for membership: Messrs. M. L. Cashman, 13 Herbert Street, Dublin; M. J. Cullen, Tubbercurry, co. Sligo; R. J. Curtis, 43 Grand Parade, Cork; P. J. Hogan, 4 Cook Street, Cork; K. Matthews, 37 Park Street, Dundalk. The Licence certificates of the following were signed and sealed: Peter J. Bardon, Ida G. Elliott, Christopher M. Morrissey, Jeremiah J. Murphy, Jane Nuala O'Donnell, and Patrick Redmond.

When other business was reached, Mr. D. W. P. BOYD said there was one matter on which he would like to get a decision from the Council and that was the advisability of approaching the Government on the question of the Pharmacy Bill so long before them. The Government could be approached with a view to having the Bill passed as it stood at the moment, or amending it and passing it in the amended form. Although many members of the Council today were not familiar with the provisions of the Bill he would like to see the matter investigated, by a subcommittee if possible, and the Bill carefully gone into. He was aware there was a large proportion of registered druggists in favour of doing something in the matter, and he was sure the majority of the pharmacists in the country, too, would be glad to see legislation introduced if not in the Bill's present form, in an amended form acceptable to the profession. With their present president at the helm he believed they stood a better chance of getting legislation passed than they did some years ago.

THE PRESIDENT: I would be quite in favour of what you say Mr. Boyd, but it will involve an enormous amount of work, and we have very little chance of getting legislation through for a considerable time to come. I see your point of view however.

MR. BOYD said that in justice to their members they should look into the matter and see what could be done. In his view the Bill prepared was far too comprehensive, too all-embracing, to stand a chance at this juncture of being passed into legislation. They could, however, embody some of its more important provisions in proposals to the Government.



MR. HICKEY thought it would be unwise to do anything until the Vocational Commission at present sitting made its report.

THE PRESIDENT: I would not be in favour of going on unless we get an undertaking from the Government that they are prepared to go ahead with it.

MR. FITZPATRICK said Mr. Kieran was a member of the old Druggists' Committee in connexion with the Bill, and had been paid a very high compliment for his help by Mr. Meek, their law adviser at the time. Perhaps Mr. Kieran as the second druggist representative on the Council with Mr. Boyd would say if there was any urgency for the measure, at a time when the Government was expending every effort for the defence of the country. Was it likely they would introduce a bill of this kind which would be highly controversial just now?

MR. KIERAN, supporting Mr. Boyd, said there was a movement amongst druggists in the country in favour of having a Bill passed. He had received communications from two or three druggists on the matter recently. It was represented that he personally was against the Bill going through, and that he was in favour of leaving things as they were. That was untrue and he would like to contradict that impression. If it was not possible to get the original Bill through at this stage he would urge that the Council examine the possibility of having a small amending Act introduced which would meet the situation so far as the druggists were concerned.

The Council agreed that Mr. Boyd and Mr. Kieran with the Registrar (Mr. Kerr) go into the whole matter of possible amending legislation to meet the wishes of druggists on the Register.

A meeting of the Benevolent Fund Committee was then held and some grants passed for payment.

## ANTISEPTICS IN WAR WOUNDS

AN afternoon meeting of the Pharmaceutical Society was held at 17 Bloomsbury Square, London, W.C.1, on November 14, Mr. Walter Deacon (president) in the chair. The president introduced Professor A. Fleming, F.R.C.S. (Professor of Bacteriology, University of London), who gave a lecture on "Antiseptics in War-time Surgery."

The speaker defined antiseptics as being substances capable of interfering with the growth of bacterial organisms, as distinct from disinfectants which killed them. He gave illustrations of the values of antiseptics in different media, emphasising the greater antiseptic effect of certain substances in broth than in blood. As a testing medium he recommended fresh defibrinated human blood, and described a method by which it was possible to ascertain (a) the combined value of the chemical tested, and of the leucocytes, on the organisms; and (b) any deleterious action on the leucocytes. A substance found to have a more powerful action on the leucocytes than on bacteria was unlikely to prove useful as an antiseptic in a septic wound. The sulphanilamide compounds were found, said Professor Fleming, to act as well in blood as in ordinary culture media. He went on to consider the fate of antiseptics in septic wounds, instancing the rapid fall in hypochlorite titre of eusol when in contact with a wound. He recalled that at the outbreak of the war of 1914-18 surgeons had turned first to various chemicals in sepsis problems, later abandoning these in favour of surgical measures. In the present war, wounds had been principally treated by surgical means but chemicals—the sulphanilamide compounds in particular—had latterly received much attention. These compounds must not be regarded as general antiseptics but as specifics for certain organisms and without action on others. In strengths of about 1 in 200, sulphanilamide derivatives affected leucocytes and their bacteriostatic effect was high, while in lower concentrations organisms were hampered in growth but not killed, their final destruction being effected by the leucocytes themselves if the compounds were present in the requisite concentrations.

**Influencing Factors.**—Immunity of the body to invading organisms, favoured, while the presence of pus, peptones, and dead or living organisms in large numbers hindered bacteriostatic action. Tests showed some substance to be present in bacterial organisms that inhibited the action of the sulphanilamide compounds but the inhibitory action was diminished on dilution. Many substances present in a wound would diminish the bacteriostatic action of the sulphanilamides, and these compounds were not considered effective for badly infected wounds. Comparison of the bacteriostatic effect on staphylococci and hæmolytic streptococci of three sulphanilamide compounds showed that sulphathiazole—2 (*p*-aminobenzene sulphamido) thiazole or M. & B. 760—was the most effective; sulphapyridine—M. & B. 693—next in order; and sulphanilamide the least effective of the three. Penicillin—the bacterial growth-inhibiting substance of one of the *Penicillium* species—had, weight for weight, a more powerful action on hæmolytic streptococci and staphylococci than either sulphathiazole or sulphapyridine, even in the impure state, in which it was believed to contain

## WELFARE IN FACTORIES

IN view of the rapid expansion of the national effort and the exception demands made upon workpeople, it is desired to increase the number of qualified persons available for posts as *personnel*, managers or welfare supervisors in factories. To meet the present urgent need a short intensive course of training has been arranged in collaboration with certain universities—at present Birmingham, Edinburgh, Liverpool and London—and with various employers having established *personnel* or welfare departments in their factories. A leaflet issued recently by the Ministry of Labour and National Service entitled "Factory Personnel Managers and Welfare Supervisors" relates to the procedure and facilities afforded in the case of this special intensive course of training. Candidates under twenty-five years of age would not normally be regarded as suitable, and candidates should, of course, be physically fit to undertake the work. Selection of candidates to undergo the course of training will be carried out by a selection board appointed by the Minister of Labour and National Service. Applications must be made on a form which can be obtained from the Ministry, Central Register, Queen Anne's Chambers, London, S.W.1, and other organisations. After completing the form, the candidate will forward it to one of the organisations, which may transmit it with a recommendation to the secretary of the selection board at the Ministry of Labour and National Service. The applications of candidates so recommended will be considered by the board, and no candidate will be selected except after a personal interview before the Board. The course will last for approximately three months. In the case of candidates selected by the board for admission to training under the scheme, the university fees for the course will be paid by the Ministry on behalf of the student. Allowance for other expenses will also be considered.

about 20 per cent. of active principle. The following tables give the figures of the comparative tests previously referred to.

### BACTERIOSTATIC POWER OF PENICILLIN AND SULPHANILAMIDES

#### I. ON STAPHYLOCOCCI

Concentration of chemical	Penicillin (Impure)	Sulphathiazole	Sulphapyridine
1 in 10,000 .. ..	0	0	0
1 in 20,000 .. ..	0	0	22
1 in 40,000 .. ..	0	0	17
1 in 80,000 .. ..	0	8 (min.)	25
1 in 160,000 .. ..	0	24	—
1 in 320,000 .. ..	0	19	—
1 in 640,000 .. ..	23	29	—
Control* .. ..	25	25	25

#### II. ON HÆMOLYTIC STREPTOCOCCI

Concentration of chemical	Penicillin (Impure)	Sulphathiazole	Sulphapyridine
1 in 50,000 .. ..	0	0	0
1 in 100,000 .. ..	0	0	70 (min.)
1 in 200,000 .. ..	0	0	114
1 in 400,000 .. ..	0	50 (min.)	all about 114
1 in 800,000 .. ..	0	102 (small)	
1 in 1,600,000 .. ..	14	105	
1 in 3,200,000 .. ..	100	112	
Control* .. ..	110	110	—

\* CONTROLS.—Number of colonies which will grow in blood without the addition of any chemicals.

Antiseptics were most effective in freshly inflicted wounds, i.e. in preventing sepsis. So far penicillin had not yet been tried on septic wounds and in all probability it would not be so used until its nature was more fully understood. At the moment the only source of the substance was the mould *Penicillium*, and the process of extraction appeared to be uneconomical. Sulphanilamide compounds had been tried on older, granulating wounds that contained too many streptococci to permit skin grafting, and had been found of much value.

**Vote of Thanks.**—SIR WILLIAM WILLCOX, proposing a vote of thanks recalled that some twelve years ago he had emphasised the importance of incorporating bacteriology in the curriculum of the pharmacist shortly afterwards the Society had decided to include the subject in courses for the qualifying examinations. At that time he had discussed with Professor Fleming the most suitable course, and he thanked him for advising the Society on the matter. DR. H. DAVIS seconded the vote of thanks.



## HEALTH IN SHELTERS

RECOMMENDATIONS of Lord Horder's Committee regarding the conditions in air-raid shelters with special reference to health, and a statement of action taken by the Government thereon, which have been presented to Parliament by the Minister of Health and the Minister of Home Security, have been published as a White Paper (Cmd. 6234, price 2d. net).

Extracts from the recommendations of the Committee are given below, followed by statements of action taken:—

To effect the utmost degree of dispersal so as to deal with the crux of the problem, which is overcrowding, domestic and communal shelters should be popularised by: (i) publicity as to the degree of security afforded in comparison with that provided by the larger shelters; (ii) demonstrations in every borough of the possibility of adapting them to the use of family life, and especially during the night, again with publicity; (iii) similar demonstrations and publicity in respect of the Anderson shelter. Since the *blitzkrieg* it has, quite unjustifiably, lost some of its popularity. In this connexion the borough should see that these shelters are properly covered.

The local authorities should be authorised to provide adequate sanitary equipment within the shelter and, where necessary, to engage extra staff for the regular and proper cleansing of the shelters and for the disposal of the contents of the containers.

### Medical Aid Posts

Regular inspection of the shelter should be made by the Medical Officer of Health and his staff. Instructions have been given to the appropriate authorities in the London Civil Defence Region for the regular and frequent inspection of shelters to be carried out by the Medical Officer of Health and his staff. Where necessary, additional staff is being engaged for this purpose.

The provision of first-aid points in large shelters should be encouraged. Instructions have been given to the appropriate authorities in the London Civil Defence Region to provide for the attendance of doctors and nurses in the large shelters; and for the provision of medical aid posts in these shelters. Similar instructions have been issued to the regions outside London for the application of these arrangements where required in their areas.

Beds and bunks should be allotted to the medical aid post at the rate of two beds and three three-tier bunks for every 500 persons in the larger shelters. These bunks should be placed so as to allow expansion of the post if necessary. There should be the same allocation for group of contiguous smaller shelters. The medical aid post should be large enough to allow of screening off patients for simple medical examination. The foregoing recommendations, together with a schedule of equipment and drugs for medical aid posts which was prepared by the Committee, are incorporated in a circular of instructions which has been issued to the appropriate authorities.

The two questions of ventilation and heating are closely interrelated. The ideal solution would be "air conditioning," but as this is not practicable ventilation by natural means must be assumed. It should be an instruction to all shelter wardens to see that ventilation shafts, openings in brick-work, and other methods of securing the entrance and exit of air are fully open, even at the time of a raid. Efforts should be made to control floor draughts, and in large shelters attempts should be made to admit incoming air at high levels, so as to mix with the warm air. There are objections to heating the majority of shelters during their occupancy which outweigh the advantages. The use of coal and coke entails dangers from fumes. Gas and electricity are subject to interruptions, and have their own special dangers.

### Spray and Inoculation

There is sufficient evidence for considering that the risk of air-borne infection may be reduced by spraying the atmosphere of shelters. On account of its easy procurability, cheapness in bulk and intrinsic merits as antiseptic recommended is sodium hypochlorite in aqueous solution. The type of spray will vary from mechanically operated to hand-operated apparatus, according to the type and size of the shelter. Provision is being made for this in the schedule of equipment issued to local authorities. The type of spray is being examined by the Medical Research Council.

The disease most likely to arise in increased incidence as the result of shelter conditions, and against which protection by inoculation is of proved value, is diphtheria. In regard to this disease the Committee urges that every encouragement and facility be given to the local authorities to popularise protective inoculation, and that the diphtheria toxoid necessary for the purpose be supplied free to the local authorities by the Ministry of Health. This recommendation is accepted and an appropriate Circular to local authorities will be issued as soon as possible.

As there is no good evidence that to supply vitamins in the form of medicines reduces the incidence of the common bacterial infections, the Committee does not advise their use in this form.

## PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

A MEETING of the Northern Ireland Pharmaceutical Council was held at 73 University Street, Belfast, on November 15, the president (Mr. James Glendinning) in the chair. Also present were the vice-president (Mr. H. F. Moore), Messrs. J. Trevor Nicholl, J. Edgar Connor, J.P., James Donaghy, J. F. Grimes, J.P., J. W. Gray, J.P., Charles Abernethy, John McGregor, James McDowell, Walter C. Tate, and Professor E. B. C. Mayrs. The secretary (Mr. D. L. Kirkpatrick) was in attendance. This was the first forenoon meeting of the Council this winter owing to the black-out and travel difficulties for country members.

A letter was read from Mrs. McBride, Armagh, thanking the Council for their tributes to her late husband, Mr. Andrew C. McBride, a former president. She added: "How proud he was of his presidential chain, every link of which was welded with love and sincerity of purpose to do his utmost for the welfare of the Council and all it stood for."

The Ministry of Home Affairs wrote approving the appointment of Mr. James Still, M.Sc., D.Ph., M.P.S., as examiner in chemistry in place of Dr. J. E. Driver, for the Society's examination in December.

There was a letter from Mr. T. G. Rutledge, Omagh, thanking the Council for their promise of a grant to enable the formation of classes in the district for pharmaceutical apprentices, and Mr. W. R. Johnson, secretary of the Technical School, Coleraine, wrote intimating that they had arranged a course for pharmaceutical apprentices in the Coleraine area beginning the following week.

On the motion of MR. DONAGHY, seconded by MR. NICHOLL, the Council decided to make grants of £15 each to Omagh and Coleraine Technical Schools to enable classes for pharmaceutical students to be carried on.

The Council decided to amend the minute relating to travelling expenses by substituting before "class" the word "first" for "second."

MR. MOORE, in proposing this, said he thought their country members who came such considerable distances to attend the Council meetings, often at great inconvenience, were entitled to this little concession.

MR. ABERNETHY seconded.

The following were appointed to attend at the December examination: *Monday, December 2*, Mr. Abernethy and Mr. W. Martin; *Tuesday*, Mr. McDowell; *Wednesday*, Mr. Tate and Mr. Nicholl; *Thursday*, Mr. McGregor.

## CEYLON QUININE AND ACETIC ACID

SOME interesting details of the efforts being made in Ceylon to establish the manufacture of quinine and acetic acid are contained in the report, just issued, of the Director of Commerce and Industries. A fairly large quantity of cinchona of the species *Succirubra*, which has a low quinine content and a fairly high total alkaloid content, is produced in Ceylon. At present all the cinchona bark—about 120,000 lb. annually, is being exported to foreign countries for use as raw material in the manufacture of quinine and quinine preparations. Owing to the poor quinine content of the bark, however, prices received were very low, with the result that cinchona cultivation is gradually dying out. As the consumption of quinine and quinine preparations in Ceylon is high, there seemed to be no reason, remarks the Director, why Ceylon's output of cinchona bark could not be used for a home industry, so that higher prices could be offered to producers for the bark and increased cultivation thus encouraged.

Following laboratory experiments, a scheme for establishing a factory was approved by the Executive Committee, and an appropriation of 78,000 rupees out of the loan funds ratified. Expert assistance is being obtained and it is expected that the factory will be working before this year is out.

The question of acetic acid manufacture first interested the authorities as a result of an acute shortage of acetic and formic acids due to war conditions. Experiments were conducted to investigate the economic possibilities of acetic acid manufacture from coconut shells. A large quantity of coconut shell charcoal is exported from the island every year, and acetic acid is one of the by-products produced in the burning. Prospects have been found to be favourable for starting the industry and a scheme for setting up plant which would eventually supply the island's total requirements is now under official consideration.

COLOMBIA PHARMACOPŒIA PROPOSED—A Bill has been introduced into the Chamber of Representatives of the Republic of Colombia with the object of establishing a commission to compile a Colombian Pharmacopœia. The commission would be given four years to complete its work. If the Bill were passed the practice of pharmacy would be restricted to Colombians certified by the National University School of Pharmacy and to foreign pharmacists whose credentials complied fully with the requirements prescribed by the University. A pharmacy inspection service consisting of pharmacists would be constituted.



## EDINBURGH EVENING MEETING

THE opening meeting of the session of the North British Branch of the Pharmaceutical Society was held at 36 York Place, Edinburgh, on November 13, Mr. W. F. Hay (chairman of the Executive) presiding. The chairman said that the lecturer, Professor J. W. Cook, D.Sc., F.R.S., had succeeded Professor Barger as Regius Professor of Chemistry in the University of Glasgow. Before taking up his appointment in Glasgow, Professor Cook had been Professor of Chemistry in the University of London and research chemist at the Royal Cancer Hospital, where he had distinguished himself in researches on substances producing skin cancers. The subject of Professor Cook's inaugural sessional address, which was illustrated by lantern slides, was

### "Some Biological Applications of Synthetic Chemistry"

#### [ABSTRACT]

The vast expansion of organic chemistry while its theoretical foundations were being laid seemed for a time to obscure the intimate relationship of the science to natural processes. In recent years this aspect has come into prominence once more, and the striking achievements of chemotherapy come at once to mind. The spectacular results which followed the introduction of the sulphonamide drugs were, for example, the outcome of purely chemical investigations.

Much progress has also been made in other branches of chemotherapy. The rapid decline in use of cocaine as an addiction drug after the discovery of synthetic substitutes stimulated attempts to solve the problem of drug addiction with opium alkaloids. American investigators have concentrated on a study of the pharmacology of morphine derivatives and of synthetic compounds having structural features in common with the morphine molecule. Studies indicated that all derivatives of the alkaloid possess addiction liability to a greater or less extent, but many of the synthetic substances have interesting pharmacological properties. One of them, an isoquinolino-tetrahydrophenanthrene derivative is a powerful analgesic and produced in the cat a typical morphine-like picture without evidence of convulsant action and without emetic effect. Clinical studies with a closely related substance showed it to be free from addiction liability. Sir Robert Robinson has recently summarised progress made in the chemotherapy of tubercular infections and has pointed out that in tuberculosis, as in leprosy, a suitable therapeutic agent should provide a means of penetrating or breaking down the waxy envelope which surrounds the bacilli of these infections. The active component of chaulmoogra oil is now known to be a cyclopentenyl fatty acid. Many synthetic analogues of chaulmoogric acid also possess leprocidal activity, and the nature of these substances gives support to the view that they owe their activity to a capacity to effect impairment of function of the fatty envelopes of the organisms. It may well be of significance that phthioic acid, isolated from tubercle bacilli, and found to produce in experimental animals lesions similar to those of tuberculosis, is likewise a branched chain fatty acid. A logical method of approach to the chemotherapy of tuberculosis may consist in the combined application of a fatty-acid derivative, capable of attacking the envelope of the bacillus, with an auxiliary drug, possibly of the sulphanilamide type, to penetrate into the organism and destroy it. Anderson isolated a pigment, phthiocol, which he was able to synthesise; this is a naphthaquinone derivative related in structure to vitamin K.

In the past ten years many new vitamins have been recognised, most of the known vitamins have been isolated, and the principal ones have been synthesised. The biological rôle of several of them has also been partially elucidated. Spectroscopic examination of the blue colour which vitamin A gives with antimony trichloride has proved a useful method of assay. The pure crystalline vitamin was isolated for the first time only a few months ago. The synthesis of its methyl ether has been claimed, but experimental details have not yet been published. The structure of the vitamin represents a diterpene related to the polyene pigments, among them the visual purple which is present in the retina of the eye. Several vitamins D and their provitamins are known, but it seems likely that the animal provitamin is 7-dehydrocholesterol, formed by loss of a molecule of hydrogen from cholesterol. Cholesterol may be converted in the laboratory into its 7-dehydro-compound, and this, when acted upon by ultra-violet light, is transformed into a series of products, one of which is identical with the natural vitamin. The photochemical changes are of interest, since exposure to sunlight may cause malignant tumours in the exposed skin. Whether chemical modification of cholesterol or a derivative is concerned in this process is not known, but by relatively simple laboratory transformations cholesterol and the related bile acids may be converted into a polycyclic hydrocarbon known as methylcholanthrene, which is capable of inducing malignant epithelial growths and also other forms of cancer. The principal members of the vitamin B complex are known as B<sub>1</sub> and B<sub>2</sub>. The pure synthetic vitamin B<sub>1</sub>, known as aneurin or thiamin, is shortly to be added to white bread to replace the loss sustained in milling. Aneurin is a heterocyclic compound containing

nitrogen and sulphur. It thus contains a primary alcoholic group which, when esterified with pyrophosphoric acid, gives the co-enzyme co-carboxylase, a component in the pyruvic-acid degradation system. Aneurin thus plays an important part in carbohydrate metabolism. Vitamin B<sub>2</sub> has also been found to influence plant growth, and it is claimed that a concentration of 1 in 100 millions will prevent the "root shock" involved in transplantation of flowers and trees. B<sub>2</sub> is a pigment that has been isolated from milk and eggs and is known as lactoflavin. The vitamin has been synthesised by several methods, and is known to be the active component of one of the respiratory enzymes. The enzyme may be reproduced artificially by combination of lactoflavin, phosphoric acid with a suitable protein preparation, and by virtue of its ready reduction and re-oxidation is able to act as a hydrogen acceptor in oxidation processes which take place in the tissues. In these respiratory processes co-enzymes act as carriers and transfer hydrogen from activated substrate to flavoprotein, which in its turn passes on the hydrogen to oxygen. The co-enzymes have the structure of nucleotides and contain in their molecules nicotinic amide or adenine, linked through ribose to phosphoric acid. The sugar component is the same as that found in lactoflavin, while nicotinic acid which plays an essential part in this scheme, is now known to be identical with the vitamin, the absence of which results in a skin disease known as pellagra. Nicotinic acid, as well as the associated synthetic product quinolinic acid, has been found to have curative properties in human pellagra.

Vitamin B<sub>6</sub>, also a pyridine derivative, has been prepared synthetically. The associated disease in chicks may be cured by administration of pantothenic acid, a growth factor isolated from yeast. Pantothenic acid has been synthesised, and the synthetic product was recently found to prevent and to cure a condition of depigmentation of fur produced in rats fed on deficient diets. Synthetic vitamin E,  $\alpha$ -tocopherol, is now available. Somewhat similar in molecular structure is vitamin K, a substance necessary for coagulation of the blood in chicks. A whole series of synthetic  $\alpha$ -naphthaquinones have been found to have the biological activity of the natural vitamin, among them phthiocol, to which reference has been made already. The synthetic vitamin is now being manufactured.

The period in which these advances have been made has also witnessed remarkable progress in the chemistry of a group of hormones, which have been shown to be related in molecular structure to each other and to cholesterol. Similar structures have been shown to occur in the molecules of the heart stimulants such as those of digitalis, in the toxic poisons, the vegetable saponins, and the bile acids. Except in the case of the oestrus-producing hormone, total synthesis has not yet been achieved, but members of these groups have been converted into common degradation products, and the steroid hormones have all been artificially prepared from cholesterol or other sterols. The isolation of the hormones followed elaboration of biological methods of assay whereby their presence in urine may be detected and estimated. Desoxycorticosterone has been isolated from ox adrenals and is now prepared artificially in considerable amount. Progesterone, the hormone of the corpus luteum, and testosterone, the testicular hormone, are also available commercially, although it is doubtful whether they are being manufactured in this country. They are obtained by somewhat elaborate degradations of stigmasterol, from soya bean oil, and of cholesterol. Estradiol has not yet been prepared from a sterol, but its biological oxidation product oestrone is being recovered in considerable quantity from the urine of pregnant mares. The total synthesis of equilenin, a related hormone, has been accomplished by a laborious process not suitable for commercial production. Fortunately, there are artificial substitutes for this hormone. The oestrogenic activity of synthetic polycyclic compounds was first demonstrated in 1933 and 1934 by Prof. Dodds and myself, and the pursuit of these investigations led Dodds eventually to the discovery of stilboestrol, a simpler counterpart of oestradiol which is equally active and is being manufactured for clinical use.

Dr. E. G. V. Percival proposed, and Dr. Blackie seconded, a vote of thanks to Dr. Cook.

Attention was directed to books added to the Library and also to an old leech jar which had been presented by Mr. J. T. Coats.

PHARMACEUTICAL SOCIETY'S CALENDAR.—The 1940-41 Calendar of the Pharmaceutical Society of Great Britain, incorporating "Forensic Pharmacy," has recently appeared. It contains all the usual features, together with the annual report of the Council of the Society.

RUBBER GLOVES.—A Government specification has recently been issued for anti-gas rubber gloves No. 1 by the Technical Co-ordinating Committee on Textiles and Clothing (H.M. Stationery Office, price 1d.). Details of the materials, manufacture and testing of the gloves are given in the specification.



# PROPAGANDA FOR DISPENSING

by Spencer Wells

THE full effect of the purchase tax will not be felt for some weeks—until existing stocks have been disposed of, and higher prices begin to operate generally through all trades. It is difficult to estimate how the tax will affect retail business generally, but it is likely at least to put a damper on what may be called "unnecessary" spending. People will make their tooth-brush last a little longer, will be more economical with their box of face powder and will say to themselves "I think this sponge will last for another month or so."

Bearing in mind the hard times in which we live, the constant air-raid warnings, leaving little time to take shelter, and the feeling of never knowing what will happen next, it is not feasible to expect an increase in the number of prescriptions to be dispensed. In many districts, in fact, this has already occurred. Since drugs are among items subject to purchase tax, the prices of dispensed medicines will rise, and the result may well be an increase in National Health Insurance dispensing. In this department, in fact, a "boom" may be predicted with some confidence, and it may even be said that insurance dispensing is one certain source of revenue in pharmaceutical business today. To activate the "panel," therefore, will be a prudent policy, and for my part I have decided to use one whole window over to dispensing propaganda for the rest of the winter.

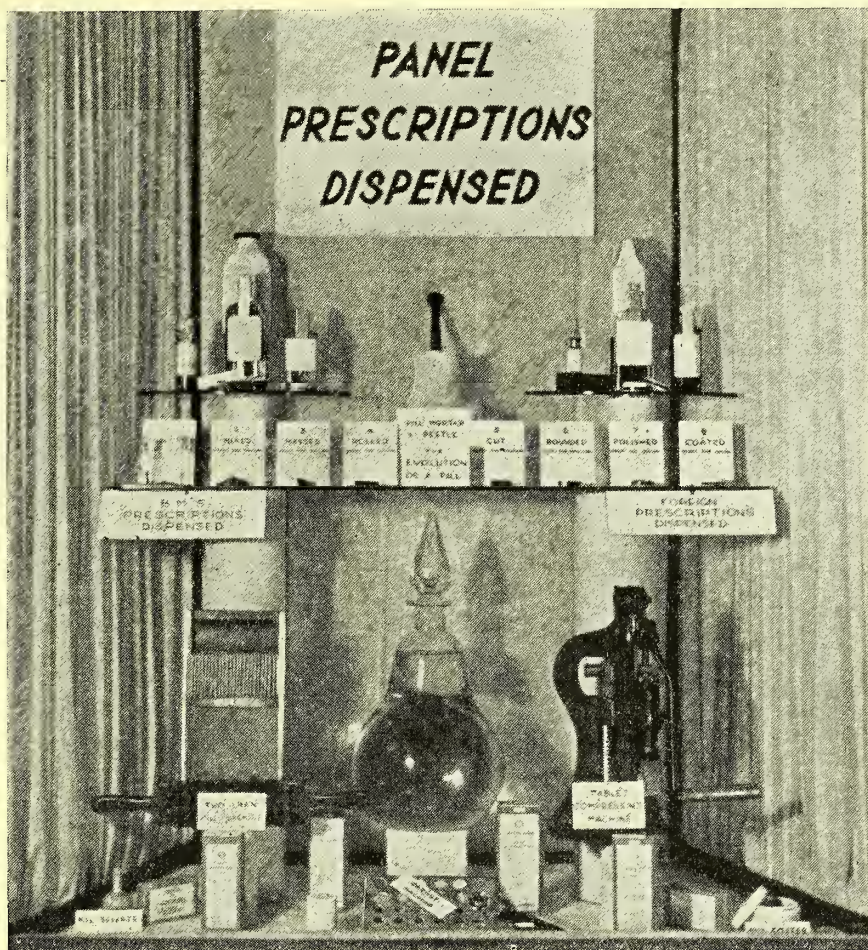
The first display I had was quietly successful. It attracted a good deal of attention and favourable comment, and brought in new business.

As the winter goes on, and each few weeks brings a new, interesting dispensing window, public interest in the display and the business will manifest itself to a greater degree. The series of displays launched is designed to take the form of "instructive" propaganda. Just as "how-to-do-it" articles are considered one of the most popular branches of journalism, "how-it-is-done" displays will attract and retain public interest. For the whole series of displays several showcards are necessary—to be featured in each. The first is a big card "PANEL PRESCRIPTIONS DISPENSED" in bold black lettering on white card. Lest the colour scheme should seem uninspired, it may be pointed out that, placed fairly high and centrally in the window, the card can easily be read from across the way, and is legible in failing light for a longer period than it would be in any other combination of colours. In many localities it will also enable the new population of the evacuees—to discover quickly where they can have their panel prescriptions dispensed. The other cards for permanent exhibition may be made of long narrow shape so as to permit fixing along the edges of shelves. They are: "FOREIGN PRESCRIPTIONS DISPENSED"; "HOMEOPATHIC PRESCRIPTIONS DISPENSED"; "B.M.S. PRESCRIPTIONS DISPENSED," etc. All are in black letters on white card.

In the display illustrated on this page the theme was "The Evolution of a Pill." *Pil. rhei* co. was chosen, and on the first card was lettered "INGREDIENTS—Ready for mixing." The ingredients were arranged in front of the card; they could be put on the card if this should give a better view to the public. A pinch of each powdered ingredient, a vial reporting to contain *ol. menth. pip.*, and a vial containing water to present the expient, were shown. The ingredients can be named if

desired, but adding the names of the ingredients to the card makes it rather cumbersome. The second card—each one was numbered—read "MIXED—Ready for massing," and was placed next to a tiny heap of the mixed ingredients. The third card was "MASSSED—Ready for rolling," and showed a piece of pill mass. The fourth was "ROLLED—Ready for cutting," the fifth "CUT—Ready for rounding," the sixth

"ROUNDED—Ready for polishing," the seventh "POLISHED—Ready for coating," and the eighth "COATED—Ready for taking." Around this arrangement of cards were grouped the various impedimenta necessary for pill making, each one ticketed—Pill muller, coater, silverer, pestle and mortar, pill machine, and so on, together with boxes of "dispensed" pills of various kinds (black, white, coloured, silver, etc.). The rest of the window was occupied by bottles containing mixtures, lotions, eye drops, all labelled and some of them wrapped. With a display of this kind no extravagant colour scheme should be attempted. White daisy on the base of the window is all that is required. If the back of the window must be covered use white or off-white curtains or crepe paper, relieved with an occasional band of red or blue. Other pieces of pharmaceutical equipment can be grouped about the window, limited only by the amount of window space at one's disposal. A shelf of "ethical" pharmaceutical preparations may also be effectively displayed and, of course, the certificate of the proprietor or manager. The idea of a permanent dispensing exhibit



"The Evolution of a Pill": the first display in the series described in the article

opens up many other interesting possibilities. The writer's second display, which is already installed illustrates step by step manufacture of *syr. ferri phosph. co.* The bottles, labelled *ac. phosph.*, *calc. carb.*, *silver-grain cochineal*; a coil of iron wire; a carton of sugar; etc., make, with the small informative cards, a most attractive display. The subjects for subsequent displays are numerous. A hypodermic display; a window explaining the discovery and usefulness of insulin; an explanation of the vitamins; the preparation of *ferri et ammon. cit.*, and a "believe-it-or-not" display, being suggestions.

**FACTS ABOUT IODINE.**—The first number of a new series of brochures has recently been issued under the title of "Iodine Facts" by the Iodine Educational Bureau, of Stone House, Bishopsgate, London, E.C.2, an organisation established in 1938 by the Chilean iodine producers. In the first issue have been included forty-seven facts concerning iodine consisting principally of abstracts taken from technical publications and relating to the many applications of iodine. The objects of the Iodine Educational Bureau are also outlined in this number.

**TOXIC GASES IN INDUSTRY.**—With the issue of No. 12—"Organic Halogen Compounds" (H.M. Stationery Office, price 2d.)—the Department of Scientific and Industrial Research completes its series of leaflets on methods for the detection of toxic gases in industry. The wide use of organic halogen compounds as solvents and cleaning agents makes the occurrence of dangerous concentrations of the vapours possible in many industries. Ten of the commonest organic halogen compounds are dealt with in the booklet, and the symptoms due to exposure to the vapours described.



## COMPANY NEWS

### P.C. means Private Company and R.O. Registered Office

**PIX PHOTOS, LTD. (P.C.).**—Capital £100. Objects: To carry on business as press, portrait, cinematograph and general photographers, photographic chemists. The first directors are to be appointed. Solicitor: V. Mervyn Taylor, Maxwell House, Arundel Street, London, W.C.

**CROSS AND MAX (AGENCIES), LTD. (P.C.).**—Capital £1,000. Objects: To carry on business as manufacturers of and dealers in chemicals, drugs, toilet requisites, etc. The first directors are not named. R.O.: 87 Regent Street, London, W.1.

**G.M.L. SUPPLIES, LTD. (P.C.).**—Capital £100. Objects: To carry on business as manufacturers of and dealers in curative instruments and equipment, hospital equipment, chemicals, etc. C. L. and F. Grimwood, V. Lewis and G. Madden, directors. R.O.: 54 City Road, London, E.C.1.

**CORNWELLS (WHOLESALE), LTD. (P.C.).**—Capital £100. Objects: To carry on business as wholesale chemists, etc. Henry C. Shaw, M.P.S., 14 Piccadilly, Hanley, Stoke-on-Trent (a member of the Pharmaceutical Society's Council); W. F. Redfern, M.P.S., 39 The Avenue, Basford, Newcastle-under-Lyme; and Thomas A. Grant, Hazelmere, Sandy Lane, Newcastle-under-Lyme, directors. R.O.: 114 Leonard Road, Birches Head, Hanley, Stoke-on-Trent.

**Voluntary Liquidation.**—**ENSGN, LTD.**—At a meeting on October 8 the company went into voluntary liquidation, the shareholders having decided that this policy would be in the best interests of all parties. Mr. W. H. Worrall was appointed liquidator. A statutory declaration of solvency has been filed that the company will be able to pay its creditors in full. Arrangements may be made for unexecuted orders or contracts to be taken over by another party.

**Private Arrangement.**—**HERBERT RICHARD WILSON, M.P.S.**, Normoss Road, Hardhorn, near Blackpool. At a recent meeting of creditors a statement of affairs was submitted showing liabilities of £296 15s., with net assets, after allowing £17 for preferential claims, of £159—a deficiency of £137 15s. The assets comprised stock-in-trade, £50; fixtures and fittings, £75; household furniture, £50; and book debts, £1. Debtor commenced trading in December 1936 with a capital of approximately £200. The takings never exceeded £15 a week, and no books of account had been kept. Recently creditors had been pressing, and a deed of assignment had been executed to Mr. A. T. Eaves. A resolution was passed confirming that the estate should be administered under the deed of assignment to Mr. Eaves; a committee of three creditors was also appointed.

## TRADE NOTES

**OWBRIDGE'S LUNG TONIC.**—The new retail prices, including purchase tax, for this well-known proprietary, are given in the advertisement of W. T. Owbridge, Ltd., The Laboratory, Hull.

**C. E. FULFORD, LTD.**, Carlton Hill, Leeds, 2, announce details of the new prices of Bile Beans, Zam-Buk, Zam-Buk soap, Peps, Ven-Yusa cream and Kutnow's powder on another page.

**PEPPERMINT OILS.**—Stafford Allen & Sons, Ltd., Wharf Road, London, N.1, are able to supply English, American, Japanese and Chinese peppermint oils as well as prepared blends for special purposes. Full details will be sent on request.

**WESTMINSTER LABORATORIES, LTD.**, 4-12 Palmer Street, London, S.W.1, give details in their advertisement in this issue of the new wholesale and retail prices of Brooklax, Bonomint and G.S. tablets. It will be noted that there are also special arrangements in connexion with the bonus parcels.

**ZOFLORA** is the name of a packed disinfectant which is available from Thornton & Ross, Ltd., Linthwaite, Huddersfield, and is claimed as particularly valuable for use in air-raid shelters. Zoflora is available in a variety of perfumes, but the company recommend pine. Full details may be obtained on application.

**RUBBER SOOTHERS.**—Esco (Rubber), Ltd., 80 Stamford Hill, London, N.16, have introduced an inexpensive line of rubber soothers which are obtainable through wholesalers in bulk. The soothers are of simple design and consist of a rubber teat drawn over a moulded disc. Each is packed in a transparent tissue wrapping.

**APPOINTED LONDON AGENTS.**—Alexander Pickering & Co., Ltd., general produce merchants, 41 Crutched Friars, London, E.C.3, announce that they have been appointed agents for the R. Hillier's Son Corporation, 15 Beekman Street, New York, specialists in many fine chemicals, vitamin products, and powdered dehydrated vegetable and fruit concentrates. Certain consignments are understood to be arriving shortly by air mail.

**BENGER'S FOOD, LTD.**, Strangeways, Manchester, inform us that the following products manufactured by them are free of purchase tax: Benger's food, peptonised beef jelly, essence of rennet, peptonised chicken jelly and Sterren brand cheesemaking rennet. The following products are classified as drugs and medicines and are therefore subject to tax at the rate of 16½ per cent.: Liquor pancreaticus, liquor pepticus, liquor thyroïdin, Extomak, peptonising powders, peptone suppositoires, pepsin pills, extract of red marrow.

**DIGEST-MODIFIED STAPHYLOCOCCUS TOXOID.**—Certain reactions believed to be allergic in character have been an obstacle to the use of staphylococcus toxoid in the dosages considered desirable to stimulate immunity. Lederle staphylococcus toxoid (digest-modified) has been introduced to obviate this difficulty. With it the reactions are reduced because the allergenic quality is largely modified. The safe limit dosage is greatly extended, and the larger dose thus makes possible high titre of antitoxin in a shorter period. The product replaces the staphylococcus toxoid dilutions 1 and 2 previously listed; it is available in 5 c.c. vials.

**A HEALTHY HEATING SYSTEM.**—The primary requirements for satisfactory heating in factories, offices, warehouses, etc., as laid down by Dr. T. Bedford (an investigator to the Industrial Health Research Board) are that (a) a suitable degree of warmth should be maintained; (b) the air at head level should not be appreciably warmer than that near the floor, while the heads of the occupants should not be exposed to excessive radiant heat; (c) the air should be moving rather than still. To meet these demands and give certain other advantages the General Electric Co., Ltd., Magnet House, Kingsway, London, W.C., offer electric unit heaters, full details of which may be had from the makers.

**VINOLIA PACK CHANGES.**—Vinolia Co., Ltd., Bebington, Cheshire, announce three alterations in regard to their soaps: Vinolia bath soap is now being temporarily issued in a gift box of three tablets wrapped in transparent tissue, and a plain strawboard box of six, similarly wrapped. The final pack will probably be a plain strawboard box to hold twelve tablets. (2) Although no more outer cartons and indeed no more metal containers will be available for the shaving stick in cream and blue tin the company have good stocks of the latter and are now using a more colourful and more attractive outer carton. (3) Boxes made, but which could not be used last year owing to lack of soap, are being filled with Santa Claus complete with Christmas tree made from the standard Vinolia baby soap.

### Business Changes

**EVANS, GRAY & HOOD, LTD.**, advise us that they have removed to 40 Mincing Lane, London, E.C.3. Telephone: Mansion House 926 (unchanged).

**THE INDUSTRIAL SUPPLIES (REGISTERS) DEPARTMENT** of the Board of Trade is now at the Carlton Hotel, East Cliff, Bournemouth. Communications regarding the Limitation of Supplies (Miscellaneous Orders, 1940, should be sent to that address.

### Proprietary Articles Trade Association

**Alterations to Protected List.**—The following are revised prices with purchase tax. Figures in parentheses are the former retail prices:—*Maclean Ltd.* (amended list): Maclean's tooth-paste, 1s. 1d. (10½d.), 7s. 6d. doz., tax 2s. 6d. doz. Maclean brand stomach powder and tablets, 7d. (6d.), 4s. 8d. doz. tax 9d. doz.; 10½d. (9d.), 7s. 3d. doz., tax 1s. 2½d. doz.; 50s. parcels: 7d. size 4s. 5d. doz. Fynnion salt, 7d. (6d.), 4s. 9d. doz., tax 9½d. doz. Lucozade tonic food beverage, 2s. 3d. (2s.), 18s. doz., tax 3s. doz. 50s. parcels, 17s. 6d. doz. plus purchase tax.

## C. & D. LIST OF RETAIL PRICES

The following changes should be noted:—

Cost in d.		Per	Selling Price		
Aug. 1939	Nov. 1940		lb.	4 oz.	1 oz.
s. d.	s. d.		s. d.	s. d.	s. d.
23	51	lb.	Acid. tartarici pulvis ..	5 10½	1 8 0 5
39	96	lb.	Anthemidis flores exot. ..	—	3 1½ 0 9
38	46	lb.	Confectio sulphuris ..	5 10½	1 7½ 0 5
12	17	lb.	Coriand. pulvis (crs.) ..	2 0	0 7 0 2
33	41	lb.	Elixir sennae fructus B.P.C. ..	—	1 5½ 0 5
16	27	lb.	Hennae folia pulv. ..	—	0 10½ 0 3
27	32	lb.	Ossis sepiæ pulv. subtil. ..	—	1 3 0 4
14	40	lb.	Potassii chlorat. pulvis pur. ..	—	1 5½ 0 5
19	39	lb.	Potassii tartras acidus ..	9 11	1 4 0 4
72	180	lb.	Safrol .. .. .	—	6 2 1 6



## MARRIAGES

Notices for this column must be authenticated

**FULLAM—FOLEY.**—At Corpus Christi Church, Drumcondra, Dublin, November 6, Peter Joseph Fullam, M.P.S.I., Naas, co. Kildare, to Anna Foley, B.Sc., Home Farm Park, Drumcondra.

**INNES—TAYLOR.**—At the Georgic, Union Street, Glasgow, on November 8, Hugh Spence Innes, M.P.S., 429 King's Park Avenue, Litherglen, to Catherine McLeod Taylor.

**LAWLESS—KELLY.**—At the Church of the Assumption, Tullamore, Tipperary, Michael William Lawless, M.P.S.I., and Maureen Kelly, Tullamore.

## DEATHS

**BARCLAY.**—On November 11, Mr. Thomas Barclay, Metchley Green, Edgbourne, Birmingham, chairman of Southalls (Birmingham), Ltd. Mr. Barclay was the son of the late Sir Thomas Barclay. He entered the sundries department of Southall Brothers & Barclay in 1894 and came a director four years later when the firm became a limited company. He afterwards took over the management of the company's surgical dressings factory. He succeeded his father as chairman and managing director of the company in 1921 and retained this position until 1935 when Southalls (Birmingham), Ltd., and Southall Brothers & Barclay (1935), Ltd., were formed. Mr. Barclay was president of the Surgical Dressings Trade Association in 1928.

**BURNETT.**—At Ashton-on-Ribble, recently, Mr. Joseph Fearon Burnett, Ph.C., aged seventy-nine. Mr. Burnett was formerly in business at Preston, retiring about eight years ago.

**CONWAY.**—Recently, Mr. William Conway, M.P.S., Princes Road, Liverpool, aged twenty-eight.

**DAVIES.**—Recently, Mr. Willie Emrys Davies, M.P.S., Station Street, North, aged thirty-seven.

**ELLIS.**—Recently, Mr. William Henry Ellis, M.P.S., "Boa Vista," anbedrog, near Pwllheli, aged thirty.

**GRAINGER.**—At South Terrace, Whitby, recently, Mr. Ernest Richard Grainger, M.P.S., aged sixty-three.

**HAND.**—By enemy action, recently, Mr. Beriah John Hand, M.P.S., Road Street, Canterbury. Mr. Hand passed the Minor examination of the Pharmaceutical Society in 1917.

**LOCKWOOD.**—Recently, Mr. Norman Vincent Lockwood, M.P.S., Arley-in-Wharfedale, Leeds, aged forty-six.

**MANN.**—At Ainsdale, Lincs, on November 11, from pleurisy, after short illness following collapse while at business, Mr. W. G. Mann. He had been in the service of Ayrton, Saunders & Co., Ltd., Liverpool, for nearly fifty-two years, and was known in almost every part of the country, the Isle of Man and Eire.

**McKEOWN.**—At Dunmanway, co. Cork, on November 10, Mr. John Laurence McKeown, L.P.S.I. Mr. McKeown passed the Licence examination in 1923.

**McLARDY.**—In a German prison camp, Sergeant Francis George McLardy, M.P.S., R.A.M.C. He served his apprenticeship to Mr. F. Sayer, M.P.S., Formby, and joined the Army shortly after passing the Qualifying examination of the Pharmaceutical Society in 1939. In May this year he was reported missing and later as a prisoner of war.

**MORLEY.**—Recently, Mr. Charles Morley, Ph.C., Basingstoke. Mr. Morley passed the Minor examination of the Pharmaceutical Society in 1890 and the Major in the following year.

**O'DRISCOLL.**—At Barberstown Castle, Straffan, co. Kildare, on November 6, Mrs. Maud O'Driscoll, L.P.S.I., Bandon. Mrs. O'Driscoll qualified as a pharmaceutical chemist in 1910.

**SHACKLETON.**—Recently, Mr. Aubrey Vincent Shackleton, M.P.S., Orwood Road, Southall. Mr. Shackleton passed the Minor examination in 1921.

## PERSONALITIES

**COUNCILLOR C. J. V. BELLAMY, Ph.C.** (Bellamys Dispensing Chemists, Ltd.), has been re-elected Mayor of Oxford.

**MR. PERCY JOHN ASHFIELD**, chemist and druggist, Rhyl, has been nominated sheriff of the County of Flintshire.

**MR. E. A. ONYON, M.P.S.**, Eye, Suffolk, was, on November 9, re-elected for his eighth term of office as mayor of the town.

**MR. W. H. BENEST, M.P.S.**, has completed fifty years' service as assistant dispenser at the Southampton Charitable Dispensary.

**MR. OWEN JONES, M.P.S.**, Hall Bank, Llanfairfechan, North Wales, has been elected to fill a vacancy on the local urban council.

**MR. W. T. HALL, M.P.S.**, River Street, Truro, has been elected chairman of the Cornwall Insurance Committee. He is the first pharmacist to be elected to the position.

**MR. W. L. ALEXANDER, M.P.S.**, a partner in the firm of Bailey & Alexander, chemists, Bargate, Boston, addressed the Boston Rotary Club, on November 4, in a series of talks on "My Job."

**MR. F. CHERRY**, High Street, Walton-on-Thames, who has been a member of the County of Surrey Pharmaceutical Committee for nineteen years, is leaving Surrey to take up residence at Colaton Raleigh, in Devonshire.

**COUNCILLOR THOMAS HAMER, M.P.S.**, who was, on November 9, re-elected mayor of Chorley for a second term, is a life member of the Pharmaceutical Society. He was apprenticed with Mr. J. Hall, Ashton-under-Lyne, and acquired in 1910 the business in Fazackerley Street, Chorley, of which he disposed, on retiring, to Taylors, Ltd. He is a member of the Lancashire Insurance Committee and secretary of the County Pharmaceutical Committee. Mr. Hamer was first elected to Chorley Town Council in 1931; he is the first chairman of the local Food Control Committee and is a trustee for local charities. He has been vicar's warden at St. George's Church, Chorley, for over twenty-four years.

## RECENT WILLS

**MR. JOHN PATCHETT**, 140 Gibbet Street, Halifax, chemist, who died on May 22, has left £2,139, with net personality £635.

**MR. SAMUEL HUGH PROCTOR, Ph.C.**, formerly of 126 Heathleigh, Halifax, left estate of the gross value of £19,928, with net personality £18,305.

**MR. WILLIAM HENRY MAUNDER**, 47 North Street, Taunton, chemist, who died on July 10, left estate of the gross value of £31,512, with net personality £18,650.

**SIR JOCELYN FIELD THORPE, F.R.S.**, Cooden Beach, Sussex, Past-President of the Chemical Society and the Institute of Chemistry, who died on June 10, left £2,483 10s. 8d.

**MR. IVOR EDWARD THOMAS**, Herbert House, Heolgerig, Merthyr Tydfil, chemist, who died on August 15, has left estate of the gross value of £1,985, with net personality £1,958.

**MR. THOMAS ALFRED FANNIN**, 32 Herbert Park, Dublin (Fannin & Co., medical and surgical manufacturers), who died on December 29, 1939, left estate in England and Eire valued at £29,094.

**MR. WILLIAM THOMSON KELLY, M.C., J.P.**, 33 Queens Gate, Glasgow, chairman and secretary of Cockburn & Co., Ltd., chemists, Glasgow, who died on August 10, 1939, left personal estate in Great Britain valued at £3,013.

## TRADE-MARK APPLICATIONS

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary and Year-Book," 1940, p. 275.

(From "The Trade Marks Journal," October 23, 1940)

"LEM-LEM"; sytups, etc., for making lemon flavoured beverages (32) (IV). By Clinical Products, Ltd., 14/18 High Holborn, London, W.C.1. 612,423.

CONVERSION OF SPECIFICATIONS  
Section 36 (3) and Rules 6 to 8

To Schedule IV (with amalgamation): Specification No. 348,275 by W. Gossage & Sons, Ltd.

(From "The Trade Marks Journal," October 30, 1940)

"TREX"; for soap, and flavourings (being essential oils) (3) (IV). By J. Bibby & Sons, Ltd., 12 King Edward Street, Liverpool. 606,061 (Associated).

"CLAN BRAND" (design with words "Coffee-lax" and name and address of firm, exclusive use of words "Coffee-lax" disclaimed); for a coffee laxative in the form of an essence (5) (IV). By R. Drysdale & Co., Ltd., 31 Albany Street, Edinburgh, 1. 612,228 (Associated).

"LARMERTINE" (with signature of John Woolley above); for veterinary preparations (5) (IV). By J. Woolley, 119 Trench Road, Wellington. 612,671.

"ISOPYL"; for pharmaceutical preparations (5) (IV). By E. G. Hughes, Ltd., Peru Street, Salford. 612,817.

"KRUSTY KRUMS" (device containing words "Krusty Krums," exclusive use of which is disclaimed); for ground rusks (30) (IV). By E. Brenchley, 84 Wilmot Way, Banstead, Surrey. 612,693.

"BLEXA"; for mineral and aerated waters, syrups, etc. (32) (IV). By Brookes Lemos, Ltd., 1 Spencer Road, Salt River, Cape Town, S. Africa. 612,993.

(From "The Trade Marks Journal," November 6, 1940)

"KOLLATOL"; for chemical substances for dyeing purposes (1) (IV). By A. F. Williams, Seven Oaks, Bexton, Knutsford, Cheshire. 612,142.

"FYRITE"; for a powder to extinguish incendiary bombs (1) (IV). By J. A. Eversden, Guildhall Buildings, Navigation Street, Birmingham, 2. 612,556.

"INDESTRUCTO"; for plastic preparations to render glass splinterproof (1) (IV). By British Indestructo Glass, Ltd., 27-29 Park Royal Road, London, N.W.10. 612,829 (Associated). Monogram, C.C.P., in circle, with name and address below; for fire-extinguishing compounds (1) (IV). By Chem-Control Products, Whittingehame House, Haddington, East Lothian. 612,849.

"BEAUTITUDES" and "BEBÉ'S BEAUTITUDES" (exclusive use of word "Bebé's" disclaimed); for toilet preparations (3) (IV). By L. Ivey, 13 Disraeli Gardens, London, S.W.15. 612,636/46. (Both Associated.)





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**THE NATIONAL ASSOCIATION OF OPTICIANS**  
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# THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

for RETAILER — WHOLESALE — MANUFACTURER

*Circulates throughout the Pharmaceutical, Chemical, Drug, Essential Oil, Perfumery, Cosmetic, Toilet Preparation and allied Trades and Industries in Great Britain, Eire, The British Empire and all foreign countries*

*Official organ of The Pharmaceutical Society of Ireland, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Ireland and of other Chemists' Societies in the Empire*

VOL. CXXXIII

November 23, 1940

NO. 3172

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### Official Interpretation of "Put Up"

WE quote below Customs interpretation of the term "put up for medicinal purposes" in connexion with substances listed under Classes 8 and 19 of their Notice No. 78 (Goods Chargeable with Purchase Tax).

**PURCHASE TAX.**—The Commissioners of Customs and Excise wish to draw the attention of traders concerned to the fact that substances listed under Classes 18 and 19 of Notice No. 78 which are liable when put up for medicinal, veterinary or toilet use as the case may be, must be regarded as so put up and therefore chargeable with tax, if they bear an implication by label, literature or otherwise that they are intended for the purpose indicated, e.g., a statement of dose, a method of usage or application, or an indication of therapeutic, hygienic or cosmetic value. In this connexion the mere chemical name of the substance or a generally recognised synonym, with or without the letters B.P. or B.P.C., would not of itself render the article liable to tax.

This interpretation is fair and definite, and it is of first importance to individual retailers. The small retailer would not be a "registered supplier." Only firms which do more than £2,000 per annum turnover in chargeable goods are required to register, and it is presumed that only registered firms will be liable for the collection of the tax and its payment to Customs. This means, therefore, that small retailers will be able to purchase tax-free their bulk supplies of the goods referred to in Classes 18 and 19, and either sell them not put up in accordance with the above official ruling or use them in making up their "own-name" lines or in dispensing and still not be liable to the tax, because they are not "registered manufacturers or wholesale merchants." In so far as these products are concerned it offers the small retailer an advantage of 16½ per cent. over the manufacturer of national lines, and the same benefit over multiple shops, whose sales would be likely to exceed the limit of £2,000 and who would therefore be registered suppliers and liable to the tax. The reason for this apparent discrimination is that the cost of collection of small amounts of tax from a large number of sources would not be worth while. Here is an opportunity for the individual retailer.

### Further Limitations of Supplies

FURTHER limitations of supplies for the home trade have been announced. It will be remembered that the Limitation of Supplies (Miscellaneous) Order, 1940 (C. & D., June 15, p. 427), restricted the supply for the home trade of a wide range of consumer goods for the period June 6 to November 30. The restriction in the first instance was to the extent of two-thirds of the supplies made to retailers during the six months ended November 30, 1939, to be calculated by value and not by quantity. The new Order soon to be issued will lower the quotas, in some cases to 25 per cent. and in others to 33½ per cent. and 50 per cent. for the period December 1, 1940, to May 30, 1941. The President

of the Board of Trade, in announcing the new Order, said that the country has an enormous war production programme in front of it, and the home trade must make as large a contribution as possible. That contribution would be the release of raw materials, of plant capacity and of workers. The limitations under the new Order will apply, in the main, to the same industries and the same categories of goods as those covered by the existing Order but represents, in fact, an extension of the policy which began some nine months ago. It is emphasised that there is no shortage of consumer goods and that one of the objects of the new Order is to conserve stocks so that the effort which would be directed towards their replacement might be released for the production of munitions. The Order will be framed in such a way as to permit the greatest flexibility and to ensure, as far as possible, that suppliers will concentrate on production of the cheaper lines of goods.

Under the new Order the quota of home trade will be calculated as before on supplies to unregistered persons during the period December 1, 1939, to May 31, 1940. The new quotas of interest to the drug trade, together with additions to, and exclusions from, the schedule are as follows: *Class 1*, corsets, etc., surgical goods added, quota 50 per cent.; *Class 3*, apparel, knitted, netted or crocheted, surgical goods added, quota, silk goods *nil*, others, 50 per cent.; *Class 8*, pottery, glass, etc., stoneware bottles, vacuum flasks and jars excluded, quota, pottery, etc., 50 per cent., glass, etc., 33½ per cent.; *Class 12*, cameras, etc., standard cinematographic film in lengths of 100 feet and less added, sensitised tracing cloth, ferro-prussiate, etc., cloth excluded, quota 25 per cent.; *Class 14*, fancy goods, household goods and toilet requisites, etc., quota 25 per cent.; *Class 16*, perfumery and toilet preparations, shaving creams excluded, quota 25 per cent.; *Class 17*, machinery, plant and appliances, etc., quota 25 per cent.

It is obvious from these further restrictions on supplies that the new Limitation of Supplies Order will strike hardest at that section of the chemist's business concerned with the sale of perfumery and toilet requisites. The operation of the new Order, together with the higher prices imposed by the purchase tax, will tend to reduce the sales of toilet preparations to a low level. On the other hand, it must be acknowledged that in present circumstances a marked reduction in the sale of this class of goods is inevitable and will have to be accepted as a direct contribution to the country's war effort. In view of the fact that the quotas are calculated on value and not on quantity, it would appear that the only course open to manufacturers, who naturally wish to retain the goodwill of users of their products, will be to spread their available supplies over the largest number of consumers by the introduction of smaller and less expensive packs. It is, in fact, as already mentioned, one of the purposes of the Order to ensure that, as far as possible, the cheaper lines will be those upon which suppliers will concentrate.

### Purchase Tax Rulings

THE following rulings on the purchase tax have been issued by the Commissioners of Customs and Excise:—

#### DAMAGED OR DEFECTIVE GOODS AND GOODS LOST IN TRANSIT.—

(1) When goods are damaged or destroyed on the premises of a registered firm (not being a separate retail branch or department thereof) no liability to purchase tax will ordinarily arise on that account, if there has been no taxable sale or appropriation. The same applies where the damage or loss occurs while the goods are in transit to another registered firm which has bought them tax-free as stock or materials, or to an export ship if they have been consigned abroad.

(2) Also, where a registered seller under the terms of his contract or guarantee allows a credit or free replacement in favour of an independent person or firm (buying under a chargeable purchase) in respect of defective goods, or goods not up to standard or of goods damaged or lost in transit, a corresponding tax adjustment is allowable. No such adjustment is, however, permissible—(a) where such goods have been appropriated by a registered wholesaler or manufacturer to a separate retail branch or department of his business, unless credit or free replacement is allowed to the registered wholesaler by the firm from whom the goods were purchased; (b) where the goods have been sold to an independent retailer, under terms which leave him responsible for the loss or damage; or (c) where the goods are taken back after use merely in part payment for another article.

(3) No abatement of tax is allowable in respect of goods lost or damaged, after delivery by a registered firm, on the premises of a retailer or other unregistered person, whether by enemy action or otherwise.

The following decision regarding the liability to tax of certain articles is published as supplementary to those already given in Notice No. 78:—

*Class 19 (Drugs and Medicines).*—Chargeable, yeast "put up" as a medicine in tablet or powder form.

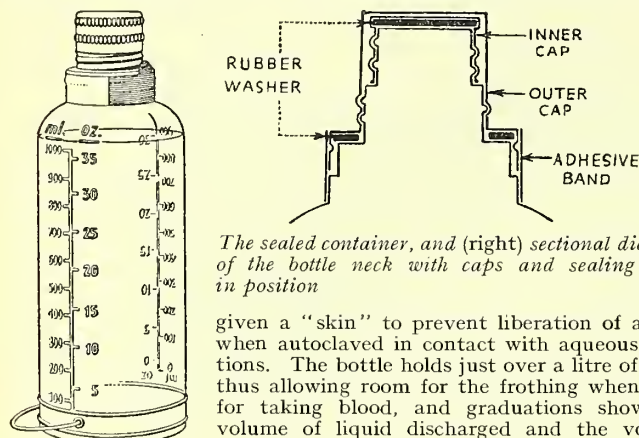
The following points should also be noted:—

**SECOND-HAND CAMERAS.**—While firms engaged in buying, renovating and selling second-hand cameras must pay purchase tax on sales, goods taken in part exchange and re-sold direct to the public are not liable.



## RECENT RESEARCH

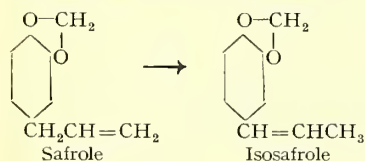
**Double-capped Container.**—An apparatus for administering blood and other fluids, described by H. I. Coombs in the "Lancet" (November 9, p. 591), incorporates special features in the cap. The container is a graduated glass bottle provided with inner and outer metal screw caps and further sealed with an adhesive band. The glass was selected to withstand mechanical and thermal strains, and the inner surface was



The sealed container, and (right) sectional diagram of the bottle neck with caps and sealing band in position

given a "skin" to prevent liberation of alkalis when autoclaved in contact with aqueous solutions. The bottle holds just over a litre of fluid, thus allowing room for the frothing when used for taking blood, and graduations show the volume of liquid discharged and the volume remaining, both when the bottle is upright and when inverted. Many existing forms of cap prove faulty under unfavourable conditions of temperature, humidity, or handling. To overcome these difficulties a second cap was designed that entirely covers the first cap. The bottle-neck carries two distinct screw threads; an inner cap fits the upper smaller thread and acts as a stopper; an outer cap fits over the inner cap and is modelled to engage with the lower and larger glass thread and to retain a rubber washer, which acts as a seal by pressing on to a shoulder of glass. The whole of the upper part of the bottle, together with the inner cap, is thus isolated from possible contamination. The bottle is sealed with a pliable adhesive band, finished off with a paper label which serves as an additional seal and a safeguard against using a bottle that has already been opened. When the contents are required, paper seal and adhesive band are stripped off, the outer cap is unscrewed, and the inner cap removed, preferably with sterile gloves. The fluid can be poured for use in full assurance that both it and the glass rim over which it passes are sterile.

**Propenyl Benzene Derivatives.**—Improvements in the manufacture of isoeugenol, isosafrole and similar propenyl benzene derivatives from the corresponding allyl compounds are referred to in British Patent Specification 525705 taken out by Stafford Allen & Sons, Ltd., and T. F. West. The usual method for bringing about this isomerisation involves fusion with caustic potash or boiling with an alcoholic solution of caustic potash for many hours. In the improved process the change is effected more easily by heating the allyl compound with caustic alkali and using a glycol or polyglycol or a glycol ether (preferably in the presence of a hydroxyamine) as diluent for the melt. The reaction is endothermic, and the melt is heated to about 160–180° until the temperature remains constant or falls slightly owing to the absorption of heat. After a few minutes at this temperature, excellent yields of the propenyl compounds are obtained. The isomerisation involves the chemical change shown in diagram, taking isosafrole as an example.



The method is illustrated by three examples taken from the patent specification. **ISOEUGENOL.**—1,000 gm. of eugenol are mixed in a still with one litre of an aqueous solution containing 450 gm. of caustic potash. Water is then removed under reduced pressure at 80–100° C. and atmospheric pressure is restored in the still. After addition, with stirring, of 300 gm. of diethylene glycol and 100 gm. of commercial triethanolamine, the mixture is heated to about 160–180° C. and held for three minutes, when the temperature begins to fall. The hot mixture is poured into a litre of water, and the still is washed out with 500 c.c. of water. The liquid is acidified with sulphuric acid (25 per cent.) and extracted with benzene or equivalent solvent. After distillation of the solvent, isoeugenol is obtained: yield, 90 per cent. **ISOSAFROLE.**—1000 gm. of safrole are added to 10 gm. of caustic potash in 360 gm. of the monoethyl in ethylene glycol and 50 gm. of commercial triethanolamine. The temperature is raised to 160–180° C. After reaction, the mixture is run into water, neutralised with sulphuric acid, extracted with benzene, and distilled: yield, 95 per cent. Isoeugenol and its ethers exist in two forms—*cis*- and *trans*-—and the products obtained

by the process described contain the *trans* form in predominance. This is shown in the following example. **TRANS-ETHYL ETHER OF ISOEUGENOL.**—A sample has been furnished under Section 2 (5) of the Patents and Designs Acts, 1907 to 1939, prepared as follows: 900 gm. of the ethyl ether of eugenol are added to 36 gm. of potassium hydroxide and 180 gm. of diethylene glycol monoethyl with 36 gm. of triethanolamine. The temperature is raised to 170–190° C. After reaction, the mixture is run into water, neutralised with sulphuric acid, extracted with benzene, and the solvent removed. The product was recrystallised from aqueous ethyl alcohol: yield of *trans* isoeugenol ethyl ether (M.P. 61°), 70 per cent. A further crystallisation raised the melting point to 64°, which is that given by Heilbron for the 4-ethyl-ether of isoeugenol (3-methoxy-4-ethoxy-1-propenyl benzene).

**Hydrogenated Oils as an Ointment Base.**—In a series of experiments to determine whether antiseptic ointments varied in activity according to the base used, Fiero and Loomis ("Journal of the American Pharmaceutical Association," XXIX.10.458) found that boric and phenol ointments, whether prepared with the official base or with hydrogenated oils, possessed no bacteriostatic properties. All ointments of ammoniated mercury were bacteriostatic, but those prepared with hydrogenated oils were superior to ointments made with the official base. The following were typical results:—

Hydrogenated Oil	Softening Point	Iodine Value	Antiseptic Zone (mm.)
Cottonseed sample .. ..	41.8	57.9	11–12
Soya bean sample .. ..	36.8	70.3	12–13
Coconut .. ..	—	5.1	10–11
Peanut .. ..	40.7	73.3	12–13
Sesame .. ..	42.7	73.3	10–12
Lard sample .. ..	38.1	58–61	11–13
U. S. P. ointment .. ..	—	—	8

**Problems of Tablet Manufacture.**—In a discussion of various difficulties encountered in the manufacture of compressed tablets, Buss and Uhl ("Journal of the American Pharmaceutical Association," XXIX.9.415) record their own experience that "capping" (the splitting-off of the upper surface of the tablet) resulted from too soft a granulation. When this occurred all attempts at a remedy, apart from regranulation, were unsuccessful. Reducing the pressure yielded too soft a tablet. Sifting out the fine powder, using a No. 30 screen was also unsuccessful. Regranulation, which resulted in a hardening of the granules, usually succeeded in eliminating these troubles. Given a hard granulation, state the authors, satisfactory tablets nearly always result. A hard granulation also permits a higher percentage of fine powder in the granulation. Tests were carried out on granulation containing various percentages of fine powder, in order to determine at what amounts capping was most likely to occur. In most cases 30 per cent. of fine powder seemed to be the most satisfactory amount though granulations containing 50 and 60 per cent. of fine powder proved satisfactory. "Capping" also occurred if not enough fine powder was present. This was experienced particularly in the compression of crystalline substances such as sodium bromide. Crystals or granules of a No. 16 mesh had to be forced through a No. 20 mesh screen to provide a proportion of fine powder with the crystals. Results of improper lubrication included "binding" (when granulation sticks to die and causes friction between lower punch and die); "picking" (when granules adhere to face of upper punch, forming a concavity in upper surface of tablet); and "sticking" (when granules adhere to face of upper punch, causing surface of tablet to be dull and pitted). Binding was found to occur frequently with substances such as sodium salicylate and calcium lactate, substances found difficult to lubricate properly. The common lubricants such as talc, mineral oil, stearic acid, etc., were not satisfactory in amounts usually recommended. Soaps were found to be good lubricants, magnesium stearate in impalpable powder form being most satisfactory. Three to 4 per cent. of the total weight of the formula was required. Calcium lactate was found to be lubricated equally well with talc or magnesium stearate, in amounts of 4 per cent. If the binding was the result of a granulation not being thoroughly dry, it was found practically impossible to eliminate, except by further drying. Mineral oil would remedy it for a few minutes, but picking and sticking would occur after operation of the machine for a few minutes. Picking and sticking were found to occur nearly always with a granulation that was not quite dry. A primary precaution is to be sure that the upper punch is clean and highly polished. Talc served as a remedy in some cases, but the percentage required was usually so high as to be objectionable. Lubricants such as stearic acid, mineral oil and magnesium and sodium stearate were also objectionable when added in amounts necessary to overcome these difficulties. Stearic acid in amounts above 4 per cent. retarded disintegration, while mineral oil in amounts above 3 per cent. decreased binding properties and produced a soft tablet. Trouble usually occurred with compounds like aspirin and sodium salicylate.



# TRADE REPORT

Not quotations recorded for pharmaceutical chemicals, crude drugs, essential oils, etc., represent the prices for wholesale quantities of standard quality. C.i.f. shipment quotations do not include marine war risk insurance and other abnormal charges which arise in the present emergency

28 Essex Street, W.C.2, November 20

The general tone of the markets this week has been quiet, but there has been a fair volume of routine business. The outlook is a little more promising and the values of most products are steady. Makers and dealers indicate that in the PHARMACEUTICAL CHEMICALS markets conditions during the past week have been fully steady. A good deal of interest has been shown in some products, but, as a general rule, buyers have confined their purchases to items required for immediate use. The outstanding price change of the week has been an advance in METOL (see PHOTOGRAPHIC CHEMICALS). BENZOIC ACID is still in short supply, but values are unchanged. Makers' nominal prices for CITRIC ACID and CREAM OF TARTAR are at the levels recorded for some weeks past. BEECHWOOD CREOSOTE is quoted rather dearer on spot. GUAIACOL is in fair demand, and values are firmly maintained. There is no change to report in the Continental prices for either SACCHARIN or SANTONIN. SULPHANILAMIDE has sold freely at unaltered rates. VANILLIN is steady at the recent advance.

## Crude Drugs

Latest reports from these markets indicate that business has continued along quiet lines. While prices are steady at the moment, a firmer tendency seems to be indicated for the immediate future. AGAR continues to attract a fair amount of attention, and buyers of the few remaining bales may find at prices will increase, as there are no shipment offers from Japanese sources. A good deal of inquiry is noted for CURAÇAO ALOES, and spot values are a shade dearer. Little interest is being shown at present in ANTIMONY, and values are steady. Stocks of BUCHU in first hands appear to be low; some shipment business is noted in old-crop. A limited business is being done in CANTHARIDES at unchanged prices. Spot values of CASCARA SAGRADA show a small advance on last week's quotation; some recent inquiries for re-export have been noted but no business seems to have resulted. Spot quotations for Spanish-Portuguese ERGOT show a small advance; shipment prices are firm. More inquiry is reported for GAMBOGE, especially for re-export. All varieties of CAMPHOR are at enhanced values. New-crop Sudan GUM ACACIA is quoted dearer for shipment. The Ministry of Food announces that arrangements have been made with the Canadian authorities for the shipment of a number of important foodstuffs, including HONEY. Minas IPECACUANHA is reported slightly easier on account of some cheaper lots now arriving. A good demand is noted for MENTHOL. There is not much inquiry for MERCURY, and quotations are steady at former rates. PIMENTO is firm and dearer for both spot and forward positions. Spot values of RHUBARB are steady. Among the roots, CANARY is no longer quoted and CORIANDER is dearer on spot. SENEGAL GUM on spot, with shipment at higher figures. TURMERIC is quoted at unchanged rates. TRAGACANTH and WAXES are quiet.

## Essential Oils

Business continues on a rather limited scale, and there is little evidence of any likely improvement in the near future. Genuine French bitter ALMOND oil quoted dearer on spot. ANISE (STAR) is firm. Values of BAY are about level on the week, and conditions are steady. The position of BERGAMOT is unchanged, and the spot price would have to be negotiated. Spot values of ROSE DE ROSE have advanced, but shipment is unchanged. CASSIA remains firm, but with only small interest shown. Ceylon CITRONELLA is firmer for shipment. Values of both Madagascar and English CLOVE are unchanged on the week. Conditions in the EUCALYPTUS market are about steady. Spot values of good-quality GERANIUM show an advance. There is no change in the position of Sicilian LEMON. LEMONGRASS is reported firmer for shipment. Firming-up in the spot position of French Guinea ORANGE is noted; Rhodesian and Californian continue at former quotations. SPIKE is showing firmer tendency. Among the SYNTHETICS it is noted that supplies of BENZALDEHYDE are likely to improve; EUGENOL and ISOEUGENOL are noted rather dearer; prices of METHYL ANTHRANILATE, MUSK KETONE, MUSK XYLON and MUSK AMBRETTE would have to be negotiated.

## Exchange Rates on London

The following is a list of the chief Continental and other exchange rates at the opening on Wednesday morning:—

Centre	Quoted	Par	November 13	November 20
Belgian Congo ..	Francs to £	nominal	176½*	176½*
Buenos Aires ..	Paper pesos to £		17°02*	17°02*
Genoa ..	Florins to £	12°107	7°60*	7°60*
Madrid ..	Escudos to £	110	100°0*	100°0*
Montevideo ..	Pesetas to £	25°24½	37°25	37°25
New York ..	Dollars to £	4°86½	4°43*	4°43*
Shanghai ..	Dollars to £	nominal	4°03*	4°03*
Stockholm ..	Kronor to £	—	3½d.	3½d.
Yokohama ..	Per yen	18°150	16°90*	16°90*
Frankfurt ..	Per 100 marks	28.	18. 2½d.	18. 2½d.
Paris ..	Francs to £	22°2115	17°35*	17°35*

\* Rate fixed by Bank of England. Bank rate, 2 per cent.

## Pharmaceutical Chemicals, etc.

The only important price movement reported this week is an advance in the prices of metol. Business generally has been steady, with fair inquiry.

ACETANILIDE.—Market steady; quotations unchanged. Spot, B.P.C. crystals and powder, from 2s. 4d. to 2s. 6d. per lb., according to quantity.

AMIDOPYRINE.—Dealers' prices are unchanged at about 27s. per lb. for crystals in one-cwt. lots, and up to 30s. for smaller quantities; powder, 3d. per lb. extra.

ASPIRIN.—Makers' scales of prices for powder are steady, as follows:—

Quantity	In containers of					
	1 lb.	2 lb.	4 lb.	7 lb.	14 lb.	28 lb.
1 lb. and under 4 lb. ..	s. d. 3 10½	s. d. 3 9	s. d. 3 9	s. d. 3 9	s. d. 3 9	s. d. 3 9
4 lb. and under 7 lb. ..	3 9½	3 8	3 7½	—	—	—
7 lb. and under 14 lb. ..	3 8½	3 7	3 6½	3 6½	—	—
14 lb. and under 28 lb. ..	3 7½	3 6	3 5½	3 5½	3 5	—
28 lb. and under 1 cwt. ..	3 6½	3 5	3 4½	3 4½	3 4	3 3½
Not less than 1 cwt. ..	2 11½	2 10	2 9½	2 9½	2 9*	2 8½
Not less than 5 cwt. ..	2 11	2 9½	2 9½	2 8½	2 8½*	2 8
Not less than 10 cwt. ..	2 10	2 8½	2 8½	2 7½	2 7½*	2 7

\* 8 × 14 lb. and upwards in one delivery, ½d. per lb. less.

Sale is subject to an undertaking on part of buyer not to re-sell any quantity at prices or terms below scale for such quantity current at time re-sale is made, and, if aspirin is converted into tablets, not to sell any number at prices or terms below scale current at time of sale.

ASPIRIN TABLETS.—No change in makers' scales of prices for bulk quantities: Under 5,000, 3s. 1½d.; 5,000, 2s. 11½d.; 10,000, 2s. 10½d.; 25,000, 2s. 8½d.; 50,000, 2s. 7½d.; 100,000, 2s. 6½d.; 250,000, 2s. 6d.; 500,000, 2s. 5½d.; 1,000,000, 2s. 4½d.; 2,000,000, 2s. 3½d. per 1,000. All bulk sales are subject to re-sale clause.

ATROPINE.—Makers' prices are as follows: ALKALOID, 21s. per oz.; 4 oz., 20s. 6d., and 25 oz., 20s. per oz. SULPHATE, 16s. 6d. per oz.; 4 oz., 16s., and 25 oz., 15s. 6d. per oz. Bottles, under 5 gm. or ½ oz., corked, 3d.; stoppered, 5d.; 5 gm. to 25 gm. or ½ oz. to 1 oz., corked, 3½d.; stoppered, 6d.; 25 gm. or 1 oz., corked, 3½d.; stoppered, 7½d.; 50 gm. or 2 oz., corked, 4d.; stoppered, 9d. each, 100 gm. and over, included in price; tubes, per 100, 5-gr., 10s. 6d.; 10-gr., 12s. 3d.; 15-gr., 14s.

BARBITONE.—Little interest is being shown in this product. Quotations for spot material are: One cwt., 22s. per lb.; 28 lb., 23s.; small quantities, up to 26s. per lb., ex store.

BENZOIC ACID (B.P.).—Supply position continues difficult but prices are unchanged. Makers quote at from 2s. 6d. to 3s. per lb., according to quantity.

BENZYL BENZOATE.—A good deal of inquiry is noted, but supplies are restricted. Makers' quotations are nominal at about 2s. 9d. to 3s. per lb.

CALCIUM LACTATE.—Business in this product has been rather slow of late. Makers quote a spot price of about 1s. 8d. per lb.

CITRATES.—Makers' scales of re-sale prices are steady:—

POTASSIUM, B.P.	In containers of					
	1 lb.	2 lb.	4 lb.	7 lb.	14 lb.	28 lb.
Under 4 lb. ..	s. d. 3 0	s. d. 2 10½	s. d. 2 10½	s. d. 2 10½	s. d. 2 10½	s. d. 2 10½
4 lb. and under 7 lb. ..	2 11	2 9½	2 9½	—	—	—
7 lb. and under 14 lb. ..	2 10	2 8½	2 8½	2 7½	—	—
14 lb. and under 28 lb. ..	2 9	2 7½	2 7½	2 6½	2 6½	—
28 lb. and under 1 cwt. ..	2 8	2 6½	2 6½	2 5½	2 5½	2 5

SODIUM, B.P., one penny per lb. below corresponding prices for POTASSIUM, B.P. IRON AND AMMONIUM (SCALES), B.P., threepence per lb. above corresponding prices for POTASSIUM, B.P. Prices net. All packages charged extra. It is a condition of sale that buyers undertake not to re-sell at prices below the values given. 28-lb. tins charged 2s. each.

CITRIC ACID (B.P. CRYSTALS).—The price continues nominal at 1s. 2d. per lb., less 5 per cent. discount, as quoted by makers in the past few weeks.

CREAM OF TARTAR (B.P.).—Since the reduction recorded on November 2, makers' nominal price has remained steady at 202s. per cwt., less 2½ per cent. discount. Supplies are restricted to regular consumer customers.

CREOSOTE (BEECHWOOD).—The price quoted by dealers for bulk quantities, in 25-kilo demijohns, is about 7s. 6d. per lb.

EMETINE HYDROCHLORIDE.—Makers' prices are unchanged at between 100s. and 104s. per oz., according to quantity.

EPHEDRINE HYDROCHLORIDE (B.P.).—Ordinary quantities are valued at from 7s. to 8s. per oz. Lots of 1,000 oz. would be at a slightly lower figure.

GUAIACOL.—The spot position of this product is unaltered; demand has been on a fair scale and values are firm. Crystals are quoted at about 12s. 6d. per lb., and liquid at about the same price.

GUAIACOL, CARBONATE.—Steady, with makers' and dealers' quotations ranging between 12s. 6d. and 13s. per lb., ex store, according to quantity.

HEXAMINE.—Continues steady. Free-running crystals are valued at about 2s. 1d. to 2s. 3d. per lb.; ex store, according to quantity; powder would be at cheaper rates.

IODIDES.—Makers' prices for the following are unchanged: POTASSIUM, B.P., not less than 1 cwt., 8s.; 28 lb., 8s. 6d.; 14 lb., 9s. 2d.; 4 lb., 10s. 8d.; smaller quantities, 11s. 2d. per lb. SODIUM, B.P., not less than 28 lb., 8s. 10d.; 14 lb., 9s. 4d.; 7 lb., 10s. 9d.; 4 lb., 11s. 5d.; smaller quantities, 12s. 3d. per lb. IODINE, B.P., RESUB., not less than 1 cwt., 9s. 2d.; 28 lb., 9s. 7d.; 14 lb., 10s. 2d.; 7 lb., 11s. 7d.; 4 lb., 12s. 3d.; smaller quantities, 13s. per lb. IODOFORM, B.P. (CRYST., PRECIP. OR POWDER), not less than 28 lb., 11s. 4d.; 14 lb., 11s. 10d.; 7 lb., 13s. 9d.; 4 lb., 14s. 7d.; smaller quantities, 15s. 5d. per lb. Contracts for 1 cwt. and upwards (assorted if desired) for delivery as required during three months, with the following clause: Price applicable to any delivery is that in force on date of dispatch. One-cwt. cases charged extra; 28-lb. tins 2s. each and non-returnable. All bottles charged for but credited in full if received back carriage-paid in good condition within three months. Carriage paid on any quantity. Assorted quantities charged for at



collective total prices on orders for 14 lb. and upwards. It is a condition of sale that buyers undertake not to re-sell any quantity at prices or terms below scale for such quantity current at time re-sale is made.

**LACTIC ACID (B.P.).**—Steady, with business on a reduced scale. 1s. 8½d. per lb. is the quoted price for one-cwt. carboys; winchesters and bottles are at about 1s. 9d. to 2s. per lb., ex store, according to quantity.

**MERCURY IODIDES.**—Makers' prices per lb. are as follows: RED, less than 7 lb., 17s. 8d.; not less than 7 lb., 17s. 4d.; not less than 14 lb., 16s. 10d. GREEN, less than 7 lb., 19s. 6d.; not less than 7 lb., 19s. 2d.; not less than 14 lb., 18s. 8d. YELLOW, less than 7 lb., 21s. 3d.; not less than 7 lb., 20s. 11d.; not less than 14 lb., 20s. 5d. net, carriage paid.

**METHYL SULPHONAL.**—Business has been about average and prices are steady at from 40s. to 42s. 6d. per lb., ex store.

**PARALDEHYDE.**—In fair demand, with spot values steady at about 11d. to 1s. per lb. for 1-cwt. carboys.

**PHENACETIN.**—Makers' spot prices are unaltered at about 3s. 9d. to 4s. per lb. for ordinary quantities, without engagement. Dealers' quotations are unchanged at about 7s. 6d. to 8s. per lb.

**PHENAZONE.**—Dealers are asking about 17s. 6d. per lb. for bulk quantities, and about 22s. per lb., for smaller quantities.

**PHENOLPHTHALEIN.**—Makers' prices are unchanged: Less than 7 lb., 3s. 8d. per lb.; 7 lb., 3s. 7d.; 14 lb., 3s. 6d.; 28 lb., 3s. 5d.; one cwt., 3s. 4d.

**PHOTOGRAPHIC CHEMICALS.**—The following are home makers' prices: **SODIUM HYPOSULPHITE.**—5 cwt., 20s.; 1 cwt., 23s.; 56 lb. for 12s. 6d.; 28 lb. for 6s. 6d. **SODIUM CARBONATE, RECRYST.**—5 cwt., 13s. 9d.; 1 cwt., 17s.; 56 lb. for 12s. 6d.; 28 lb. for 6s. 6d. **ALUM (PHOTOGRAPHIC QUALITY).**—1 cwt., 23s.; 28 lb. for 6s. 6d. **GLYCIN.**—7 lb., 13s. 6d.; in 1-lb. bottles, 14s. 6d. **POTASSIUM FERRICYANIDE.**—Prices were recently advanced by sixpence per lb., as follows: 28 lb., 3s. 1d.; 14 lb., 3s. 3d.; 7 lb., 3s. 6d.; less than 7 lb., 3s. 9d. per lb.; 1-lb. bottles, 4s. 3d.; 8-oz. bottles, 2s. 6d.; 4-oz., 1s. 5d.; 1-oz., 10d. each. **AMIDOL.**—1 cwt., 8s. 6d.; 56 lb., 8s. 9d.; 28 lb., 9s. per lb., net; 14 lb., 9s. 9d.; 7 lb., 10s. 6d.; less than 3 lb., 12s. 6d. per lb., 2½ per cent. monthly account. Bulk parcels and tins free. 1-lb. bottles, 6d. extra. **CHLORQUINOL.**—1-lb. bottles, 21s. per lb. **HYDROQUINONE.**—1 cwt., 6s. 4½d.; 56 lb., 6s. 7d.; 28 lb., 6s. 10d. per lb., net; 14 lb., 7s. 3d.; 7 lb., 7s. 6d.; less than 7 lb., 8s. per lb., less 2½ per cent. monthly account. Retail quantities: 16 oz., 8s. 6d.; 8 oz., 4s. 6d.; 4 oz., 2s. 8d. Trade prices in bottles: 1-lb. bottles, 8s. 6d. each; 8-oz. bottles, 4s. 6d. each; 4-oz. bottles, 2s. 8d. each; 1-oz. bottles, 1s. 1d. each, with retail selling prices 50 per cent. additional. **GOLD CHLORIDE.**—15-grain tubes, 53s. per doz. **MAGNESIUM POWDER.**—11s. 9d. per lb. **PARA-MIDOPHENOL HYDROCHLORIDE.**—9s. per lb., bottles free. **POTASSIUM METABISULPHITE.**—One cwt., 1s. 3d.; 28 lb., 1s. 6d.; 14 lb., 1s. 7d.; 7 lb., 1s. 9d. 1 lb., 2s.; 16-oz. bottles, 2s. 6d.; 8-oz. bottles, 1s. 6d. each; 4-oz. bottles, 1s. each; 1-oz. bottles, 8d. each. **PYROGALLIC ACID, CRYST.**—Makers' prices per lb. were recently advanced as follows: 1 cwt. and over, 11s. 3d.; 56 lb., 11s. 6d.; 28 lb., 12s., all net; 14 lb., 12s. 9d.; 7 lb., 13s. 9d.; under 7 lb., 14s. 6d., all 2½ per cent. monthly account. Small quantities, 1 lb., 15s.; 8 oz., 8s. 4d.; 4 oz., 4s. 8d.; 1 oz., 1s. 8d. **PYROGALLIC ACID, RESUB.**—28 lb., 13s. 6d. net; 14 lb., 14s. 3d.; 7 lb., 15s. 3d.; under 7 lb., 16s., all 2½ per cent. monthly account. Small quantities, 1 lb., 16s. 6d.; 8 oz., 9s.; 4 oz., 5s. 4d.; 1 oz., 2s. **SODIUM SULPHITE, RECRYST.**—One cwt., 24s. 6d. per cwt., 56 lb. for 13s. 3d.; 28 lb., for 7s. **METOL.**—Prices were advanced on November 18 and are now as follows: 1 cwt., 15s.; 56 lb., 15s. 6d.; 28 lb., 16s. per lb., all net; 14 lb., 17s.; 7 lb., 18s.; under 3 lb., 19s. per lb., all 2½ per cent. monthly account. Bulk tins free; 1-lb. bottles, 6d. per lb. extra. Retail quantities: 16 oz., 19s. 6d.; 8 oz., 10s. 6d.; 4 oz., 5s. 6d.; 1 oz., 2s. 3d. It is a condition of sale by the manufacturers that material shall not be re-sold at prices lower than manufacturers' schedules ruling on date re-sale is made.

**SACCHARIN.**—Convention rate of 98s. 4d. per lb. for duty-paid 550 material continues unchanged. Neither wholesale nor retail prices are under Government control.

**SALOL.**—Spot value maintained at from 6s. 6d. upwards per lb.

**SANTONIN.**—No change in Convention rates: 15 kilos and over, £35 10s.; not less than 10 kilos, £36 5s.; not less than 5 kilos, £37; less than 5 kilos, £38 per kilo, delivered free in the U.K.; 1-kilo tins free.

**SULPHANILAMIDE.**—Business has been fairly good, and quotations are steady at about 10s. 6d. to 11s. per lb., according to quantity.

**SULPHONAL.**—Continues to be offered at between 34s. and 37s. 6d. per lb., according to quantity required.

**TARTARIC ACID (B.P. CRYSTALS).**—Makers' nominal quotation is now at 2s. 6½d. per lb., less 5 per cent. discount. Supplies are reserved for regular consumer customers.

**VANILLIN.**—British makers' prices were recently advanced, and are now steady as follows: Ex clove oil or guaiacal, five cwt., 15s. 6d. per lb.; one cwt., 15s. 7½d.; 56 lb., 15s. 9d.; less than 56 lb., 16s., carriage paid in the U.K. Tins in cases are now returnable to makers.

### Crude Drugs, etc.

BUSINESS has been no more than fair this week, and most orders have been for near requirements. Prices are tending generally to become firmer.

**ACONITE ROOT.**—Quotations for spot material are in the region of 140s. per cwt., but supplies are difficult to locate.

**AGAR.**—The brisk demand previously noted continues, but supplies are now running low. Business is reported done in Kobe No. 1 on spot at 14s. 6d. per lb., and a few odd bales are still available at this figure. Kobe No. 2 is valued at about 14s. and Yokohama No. 1 at about the same figure. No shipment offers are available from Japan.

**ALOES.**—Fair business in Curaçao at steady prices. Spot, about 320s. to 350s. per cwt., ex store, according to quantity. The last price received from New York was at 300s. per cwt., c.i.f. The price of Cape remains steady, with spot quotations at between 57s. 6d. and 60s. per cwt. Little interest is being

shown in Zanzibar leaves, which would be valued at about 90s. per cwt. if available.

**ANTIMONY.**—Business in English, 99 per cent., is quiet, and quotations unchanged at £90 per ton, delivered; foreign regulus, in poor demand, quoted at about £90 to £91 per ton, ex warehouse, duty paid; Chinese regulus is valued at £90 to £92 per ton, ex warehouse London.

**ARNICA FLOWERS.**—Only odd lots of this drug are likely to be available, they are at a price in the region of 2s. 3d. per lb., ex store.

**BALSAMS.**—Spot values of *Tolu* remain at the figures noted last week, between 8s. 6d. and 9s. per lb.; demand is good but supplies are limited. *Canada* is now quoted on spot at about 7s. 6d. per lb. *Copaiba*, Para, changed at about 3s. 6d. to 3s. 9d. per lb. *Peru*, about 7s. 9d. per lb.

**BELLADONNA.**—As previously reported, no stocks of imported root or leaf appear to be left in first hands. The only quotation available is one of 3s. per lb. for English grown leaf.

**BENZOIN.**—The price is steady and business has been about average. *Sumatra* is quoted at between £5 10s. and £6 15s. per cwt., ex store.

**BISMUTH METAL.**—Current quotations are steady at one dollar 25 cts. per lb.

**BUCHU.**—Some inquiry has been noted, but first-hand stocks appear to have been cleared. Business is reported done in old-crop for November–December shipment at 2s. 3d. per lb., c.i.f.

**CAMPHOR.**—Quiet, and quoted unchanged throughout. Japanese, spot, about 6s. per lb. for tablets, with limited supplies only available; slabs, odd lots at about 5s. 3d. per lb.; flowers, about 5s. 4d. per lb. Continental synthetic powder, 5s. 3d.; tablets, 5s. 6d. per lb., ex store. English refined, quoted as follows: Flowers, one cwt., 5s. 9d.; 28 lb., 5s. 10d.; less than 28 lb., 5s. 11d. per lb. Transparent tablets, ½-oz., one cwt., 6s. 3d.; 28 lb., 6s. 4d.; less than 28 lb., 6s. 5d. per lb.

**CANTHARIDES.**—The price is steady, but business is on a limited scale. Chinese continues to be quoted at the slightly higher value of about 5s. 4d. per lb. duty paid, mentioned last week; there are no shipment offers. Russian, if available, would be worth approximately 6s. per lb.

**CARDAMOMS.**—Quiet and unchanged. Ceylon, spot, 3s. 6d. to 5s. per lb. according to quantity. Bombay seed, about 4s. 6d. per lb. Mangalore seed, about 4s. 3d. per lb. Aleppy greens, about 3s. 2d. per lb.

**CASCARA SAGRADA.**—A good deal of inquiry is noted, but spot stocks are rather limited; the value would be about 12s. per cwt. Shipment values continue unchanged at about 95s. to 100s. per cwt., c.i.f.

**CASCARILLA.**—This product has met with some small demand and the market is steady. Dealers are offering good silvery quill on spot at approximately 1s. 6d. per lb., and siftings at about 1s. 4d. per lb.

**CHAMOMILES.**—It is difficult to place a value on any odd lots of Belgian flowers that may remain on spot, but about 4s. 6d. per lb. has been mentioned.

**CHILLIES.**—Values continue steady and a modest business is being done. Mombasa, spot, 12s. per cwt.; Zanzibar, f.a.q., 11s.; and Sierra Leone, 11s. 6d. per cwt.

**CLOVES.**—The demand continues steady and quotations are unchanged. Zanzibar, spot, 10d. per lb., sellers; shipment, November–December, 9d. per lb., nominal, c.i.f. Madagascar, quoted unchanged on spot at 9½d. per lb. in bond.

**COCHINEAL.**—Quiet, quotations unchanged. Blacks, spot, about 2s. per lb. greys, about 1s. 10½d. per lb.

**COCOA BUTTER.**—Spot quotations are nominal at 1s. 3d. per lb., duty paid, ex store.

**COCONUT (DESICCATED).**—Spot values of both fine and medium continue nominal.

**COLOCYNTH.**—Some recent export inquiries have not resulted in business. Fine-quality pulp is quoted on spot at about 2s. per lb., with ordinary quality at about 1s. 7d. to 1s. 8d. per lb.

**DANDELION ROOT.**—The only quotation available is one of approximately 2s. per lb. for English-grown root.

**DERRIS ROOT.**—Quoted on spot at about 1s. to 1s. 3d. per lb., according to test, on a rotenone content of about 3 to 5 per cent. Ether-extract and small rotenone-content, about 10½d. per lb.

**DIGITALIS LEAVES.**—Imported leaves are not quoted. English-grown leaves are valued at approximately 4s. per lb., ex store.

**ERGOT.**—The spot value of Spanish-Portuguese is now about 9s. per lb. ex store; shipment is firm at about 7s. 2d. to 7s. 3d. per lb., c.i.f.

**GAMBOGE.**—More inquiry is noted, especially for material for re-export. The value of good-quality Siam pipe is steady at between £25 and £26 per cwt. duty paid, ex store.

**GENTIAN.**—Supplies are extremely short. Any odd bags of sliced root would be worth approximately 1s. 9d. per lb.

**GINGER.**—The spot value of West African now stands at 47s. 6d. per cwt. an advance on last week's price. Jamaican, small-medium, is also quoted higher at 65s. per cwt.; bold, in barrels, unchanged at 90s. per cwt., ex store. Cochinchina, unwashed, dearer at 52s. 6d. per cwt., ex store.

**GUM ACACIA.**—Steady, with spot values at recent levels. Kordofan cleaned sorts, spot, about 77s. 6d. per cwt.; bleached, from 125s. to 150s. per cwt. according to quality; shipment is now quoted at 47s. 6d. per cwt., c.i.f.

**HENBANE.**—English-grown leaf is quoted at approximately 6s. 6d. per lb.

**HENNA.**—Supplies of Egyptian leaves appear to have been cleared. Any odd lots that may remain on spot would be worth approximately 1s. per lb. ex store.

**HONEY.**—First-hand stocks are small, and prices would have to be negotiated. The Ministry of Food announces that arrangements have been concluded with the Canadian authorities for the purchase of various important foodstuffs including honey, during the second year of war. The purchases will be made direct by the Ministry or covered by import licence.



**HYDRASTIS.**—Business is on a small scale, with untested material quoted about 18s. per lb., and tested, if available, at between 21s. and 22s. per lb.

**IPECACUANHA.**—Values about steady; business on a small scale. Matto osso, unchanged on spot at about 22s. per lb., ex store; shipment, about 6. 6d. to 18s. 6d. per lb., c.i.f. Minas, reported easier on account of some cheaper lots now arriving; spot, about 10s. 6d. to 11s. per lb., according to it; shipment, about 7s. 3d. to 8s. per lb., c.i.f. **EXT. IPECAC. LIQ.**, unchanged 30s. per lb. for minimum lots of twelve winchesters.

**LAVENDER FLOWERS.**—Approximately 2s. per lb. would be the price required for any odd lots of good blue flowers that may remain on spot.

**LOBELIA HERB.**—A good deal of inquiry continues to be received for this product, but spot stocks appear to be low. Dealers are quoting approximately 11s. per lb. for spot material; shipment, about 11d. per lb., c.i.f.

**MENTHOL.**—Chinese, in good demand, is quoted on spot at between 19s. 6d. to 20s. per lb., according to brand; shipment, November–December and December–January, quoted at about 16s. 9d. to 17s. 9d. per lb., c.i.f. Small lots of Japanese, quoted on spot at about 22s. 6d. per lb., ex store, duty paid.

**MERCURY.**—Little inquiry is noted at the moment, but quotations are maintained. Spot, £54 10s. per bottle of 34½ kilos, ex warehouse London, without engagement and subject to confirmation.

**NUTMEGS.**—A moderate business is passing, and the price is steady. Spot, best Indian, 80's, about 1s. per lb.; 90's, 8d.; wormy and broken, about 6½d.

**ORANGE PEEL.**—Thin-cut is quoted on spot at about 3s. 2d. per lb., ex store. Other quarters, if available, would be worth approximately 1s. 8d. per lb., ex store.

**PEPPER.**—Values unchanged; market steady. Lampong, spot, 3½d. per lb., in bond; shipment, November–December, nominal. Tellicherry, spot, 4d.; shipment, November–December, 32s. per cwt., c.i.f. Aleppy, spot, 4½d.; shipment, November–December, 32s. per cwt., c.i.f. sellers. White Muntok, spot, duty paid, 5½d.; in bond, 5½d.; shipment, November–December, 4½d. c.i.f.

**PIMENTO.**—Firm, with quoted values again dearer. Spot, 1s. 4d. per lb., ex store; shipment, new-crop, November–December, dearer at 120s. per cwt., ex store, c.i.f.

**PYRETHRUM.**—Spot offers are in the region of 185s. per cwt., ex store, but business has been slow.

**QUILLAIA BARK.**—The market is dull, spot being quoted at in the region of 5s. per cwt., ex store.

**RHUBARB.**—Demand for good-quality rough-round continues, but spot prices are becoming increasingly difficult to find. Some business is reported in this quality at 5s. 4½d. to 5s. 6d. per lb. The last shipment price received was at 4s. 4d. per lb., c.i.f. Some Shensi is reported available on spot at between 10d. and 8s. per lb., according to quality, and pickings at about 6s. per lb.

**RUBBER.**—Market quiet. Standard ribbed smoked sheet, spot, 11½d.; November, 11½d.; December, 12d.; January, 12½d.; February–March, 12½d.; April–June, 12½d.

**SAFFRON.**—Genuine Spanish is quoted at 170s. per lb.

**SEEDS.**—**ANISE.**—Spot, 95s., in bond, and 98s., duty paid. **CANARY.**—Spot, at quoted. **CARAWAY.**—Spot, Dutch, 200s., duty paid. **CORIANDER.**—Spot, Arab. Morocco, ex wharf London, quoted at 57s. 6d., duty paid, and 56s., duty paid, ex store Liverpool. **CUMIN.**—Spot, 145s. quoted, duty paid. **ELL.**—Spot, Indian, 47s. 6d., ex store Liverpool. **FENNEL.**—Spot, Indian, 47s., Iran, 47s. 6d. to 50s., in bond. **FENUGREEK.**—Spot, Morocco, 22s. 6d., duty paid London, and 21s. 6d., ex store Liverpool. **MUSTARD.**—62s. 6d. to 6s., according to quality.

**SENEGA.**—Dealers' spot quotations firm at about 4s. 3d. per lb. Latest shipment offers are understood to be at about 4s. per lb., c.i.f.

**SENNA.**—Spot values of both Tinnevely and Alexandrian are nominal.

**SHELLAC.**—Demand has been quiet with quotations about level on the week. Standard TN orange, spot, 80s.; pure button, 110s.; fine orange, 105s. to 170s. per cwt.

**TAMARINDS.**—West Indian is quoted at about 38s. per cwt., ex store.

**TRAGACANTH.**—Fair inquiry continues for most grades of gum, with spot quotations showing no material change. Finest selected white ribbon, £93; No. 1, white, £90; No. 2, white, £75; No. 3, white, £55; pale leaf, £35; amber leaf, £24; red leaf, from £12 12s.; woody and hoggy, from £5 per cwt., ex store.

**TURMERIC.**—Spot, Madras and Rajapore finger, sold at 43s.

**VALERIAN ROOT.**—There are no open-market quotations.

**WAXES.**—Market has been quiet. **BEES'.**—Spot, dearer at 185s.; in bond, 75s.; shipment, Dar-es-Salaam, 170s. per cwt., c.i.f. Japanese, first three brands, spot, duty paid, 125s.; in bond, 115s.; shipment, 110s., c.i.f. **ARNAUBA.**—Fatty grey, dearer at 400s.; chalky grey, 385s.; Primeira, 510s.

### Essential and Expressed Oils, etc.

Efforts to hand this week indicate that business in these markets has been rather slow. French bitter almond is quoted dearer. Anise (star) continues firm and in fair inquiry. Ceylon citronella is firmer for shipment. Petitgrain dearer on spot.

**ALMOND.**—English expressed continues steady at the advance recorded last week; spot, one-cwt. lots, 4s. per lb., with smaller quantities at 4s. 3d. per lb., ex store. Genuine French bitter oil is quoted dearer on spot at about 18s. per lb., nominal, ex store.

**ANISE (STAR).**—In fair inquiry; price firm. Spot, tins in cases, about 5. 6d. to 5s. 9d.; drums, about 5s. 6d. per lb., ex store; no shipment offers are reported.

**AVOCADO PEAR.**—Inquiry for this oil continues, with importers quoting spot goods at about 55s. to 57s. per gall., delivered; smaller quantities would be at higher prices.

**BAY.**—Spot market is fully steady, and quotations are unchanged. Spot, between 6s. and 6s. 6d. per lb., ex store, according to quantity.

**BERGAMOT.**—It is difficult to arrive at a spot price for any oil that may remain; about 60s. per lb. has been mentioned as a basis for negotiation. British makers offer artificial substitutes at attractive prices.

**BOIS DE ROSE.**—Continues in limited demand. Spot material is now quoted dearer at about 11s. 6d. to 12s. 6d. per lb.; shipment is unchanged at about 9s. 3d. per lb., c.i.f., in drums.

**CASSIA.**—Spot quotations are now rather higher at about 7s. to 7s. 6d. per lb., and the market is firm; there are no shipment offers available from source.

**CITRONELLA.**—Market quiet: Ceylon, spot, quoted at about 2s. 4d. to 2s. 6d. per lb., in drums; small lots, up to 3s. per lb.; shipment, firmer at about 2s. per lb., c.i.f. The spot value of the Java oil continues in the region of 2s. 6d. to 3s. per lb.; shipment, about 1s. 9d. per lb., c.i.f.

**CLOVE.**—Continues steady on spot, with a few orders being taken. Madagascar would be worth about 5s. 9d. upwards per lb., in drums, if available. English, quoted unchanged at from 6s. 9d. to 7s. 3d. per lb., according to quantity.

**EUCALYPTUS.**—Little interest is shown in this product, beyond some small spot business. 70 to 75 per cent. is quoted on spot at about 4s. to 4s. 6d. per lb., according to holder; shipment, nominal at about 3s. per lb., c.i.f.

**GERANIUM.**—Continues firm. Spot value of both Bourbon and Algerian is now about 45s. to 50s. per lb. for any good-quality oil available. There are no shipment offers.

**GRAPEFRUIT.**—There is a modest demand for spot oil and prices are steady to firm. Genuine Californian is quoted at approximately 12s. 6d. per lb., and genuine Florida at about 11s. 6d. per lb.

**LEMON.**—Californian distilled, quoted unchanged at about 10s. per lb., nominal; cold-pressed might be obtained on the basis of 3 dollars 25 cents per lb., cost and freight. There is no change in the position of Sicilian hand-pressed; no quotations are available, and spot prices would be a matter for negotiation.

**LEMONGRASS.**—No change is noted in the spot price of between 4s. and 4s. 6d. per lb.; shipment is firmer at about 3s. 10½d. to 4s. per lb., c.i.f.

**LIME.**—Spot values of West Indian remain firm at about 30s. per lb., with other qualities at lower prices.

**LINSEED.**—The controlled price for large bulk quantities of crude, naked ex works, is at the recent reduction of £41 10s. per ton. Distributors' prices for ordinary quantities would be at higher figures.

**NEROLI.**—Pure French oil is valued at approximately 80s. per oz., spot.

**OLIVE.**—The Ministry of Food controlled price to importers for large bulk quantities in 50-gall. drums is unchanged. Distributors' prices for a few gallons, in gallon tins, carriage paid, range from 12s. 6d. to 13s. 6d. per gall., as to quantity.

**ORANGE.**—French Guinea oil is firmer on spot at about 7s. to 7s. 6d. per lb., as to quality and quantity. Rhodesian continues to be quoted at 8s. 6d. per lb., ex wharf London. Californian is quoted in sterling at 4s. 10d. per lb., in small drums, ex store, duty paid, limited supplies only being available. Shipment can be effected by transit overland to New York at an extra charge of five cents per lb.

**PALMAROSA.**—Demand for spot material has been steady and the price is maintained at about 12s. 6d. per lb., ex store; shipment, new-crop, quoted at about 10s. 6d. per lb., c.i.f.

**PEPPERMINT.**—Buyers have shown a good deal of interest this week in both Japanese and Chinese. Odd cases of Japanese are quoted on spot at about 72s. 6d. per lb. Business is reported done on spot in Chinese at 9s. per lb., about 1s. per lb. dearer than last week's quotation; for parcels afloat, about 8s. 6d. to 9s. per lb., landed, is being asked. Shipment prices vary from about 6s. 6d. to 6s. 10½d. per lb., c.i.f. American natural oil, steady at 14s. 3d., in drums, and 14s. 7d., in tins in cases, c.i.f. Spot, steady at about 16s. per lb., ex store.

**PETITGRAIN.**—Spot is quoted slightly dearer at about 12s. 6d. per lb., nominal; no shipment offers are available.

**ROSE.**—The value of Bulgarian on spot would be about 70s. per oz.

**SPIKE.**—Spot values of this oil tend firmer, at about 11s. 6d. to 12s. 6d. per lb.

**VEITIVERT.**—Spot market is steady, and quotations are unchanged. Bourbon, quoted on spot at about 45s. per lb. Java oil is valued at about 40s. per lb., ex store.

**Synthetics.**—**AMYL ACETATE.**—Pure, 110s.; technical, 105s. per cwt., in cwt. cases; small quantities, up to 2s. per lb. **AMYL SALICYLATE.**—3s. to 3s. 6d. per lb. **AUBEPINE (ex anethol).**—About 20s. per lb. **BENZALDEHYDE.**—Supplies are likely to improve. Spot, quoted at about 3s. 6d. to 4s. per lb. for p.f.c. **BENZYL ACETATE.**—2s. 3d. to 2s. 6d. per lb. **BENZYL ALCOHOL.**—2s. 9d. to 3s. per lb.; technical, 2s. 6d. per lb. **BROMSTYROL.** 100 per cent.—20s. per lb. **CINNAMIC ALDEHYDE.**—In short supply; quoted at 4s. to 4s. 6d. per lb. **CITROL.**—Chemically pure, 16s. per lb.; technical, 10s. upwards per lb. **CITRONELLOL.**—8s. 6d. to 9s. per lb., according to quantity. **COUMARIN.**—Quoted dearer at about 17s. per lb. **ETHYL PHTHALATE.**—Between 1s. 7d. and 2s. 3d. per lb., according to quantity. **EUGENOL.**—Rather dearer at about 10s. 6d. per lb. **GERANIOL (ex palmarosa).**—About 22s. per lb. **HELIOTROPIN** (100 per cent. crystals).—Quoted at about 20s. per lb., with cheaper offers from some sources. **ISOEUGENOL.**—Dearer at 11s. 6d. per lb. **LINALOL (ex bois de rose).**—16s. to 17s. per lb. **LINALYL ACETATE (ex bois de rose).**—17s. to 18s. per lb. **METHYL ANTHRANILATE.**—Values would be the subject for negotiation. **MIRBANE.**—10d. to 1s. 3d. per lb. according to quantity. **MUSK KETONE.** **MUSK XYLOL** and **MUSK AMBRETTE.**—Values would be subjects for negotiation. **PHENYL ETHYL ALCOHOL.**—About 11s. 6d. to 12s. 6d. per lb., according to quantity. **SAFROL.**—From about 8s. 6d. per lb. **TERPINEOL.**—Not a lot available; price about 2s. per lb. **TERPINEOL ACETATE.**—4s. to 4s. 6d. per lb.



## CORRESPONDENCE

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

### Fair Trading Conditions Wanted

SIR,—The coming of the purchase tax has brought into strong relief the margin of profit enjoyed by the chemist on a large number of proprietaries. The war has brought to us increased costs—in general with everybody. I estimate that we require 22 per cent. gross profit to carry on and pay our way. Bearing this figure in mind, the time has now arrived when it is necessary we should make a careful survey of the profits allowed to us on many lines. In the first place nobody can deny that the chemist's shop is necessary, vitally necessary, to the general public. Therefore, on our public service alone, we are entitled to a fair living wage. At the present moment the vast majority of chemists are not getting a fair living wage. A few figures will suffice to show this fact. Some well-known brands cost us 13s. 6d. and 13s. 8d. a dozen for a 1s. 3d. article (exclusive of tax). With the tax we are retailing these articles at 6·7 per cent. profit. Even where a 1s. 3d. article costs 12s. a dozen (exclusive of tax) our profit with the tax is only 17·6 per cent. I submit on these figures a large proportion of shops will not be able to pay. As we have no "deus ex machina" to hand out to us a 6 per cent. war bonus I have one or two suggestions to make to attempt to remedy this deplorable state of affairs. The first one is that chemists should boycott entirely all lines which do not show us 25 per cent. profit (exclusive of tax). The second is that we give no window or counter displays to any lines which do not show us 30 per cent. profit exclusive of tax. A third suggestion is that a body similar to the Whitley Councils should be set up to enforce the two previous proposals. I may add that I am not proposing that the functions of the P.A.T.A. be usurped. That body has done, and is doing, a most useful service, but the time has now arrived when we must press forward for a real living wage. In conclusion I should say that managers and assistants will be just as interested as owners in these proposals, as it is perfectly obvious that any higher wages, which most of them should get, can only come out of profits.

Yours faithfully,  
Sale.

F. D. GEE.

### A Retailer Looks at the Purchase Tax

SIR,—Mr. Britton's letter of approbation for the purchase tax and its hoped-for results give me furiously to think—myself at any rate. He speaks of the added clerical work of the wholesaler but does not tell us if his pay-roll has had to be increased to deal with the extra work. But the work of the wholesaler as compared with what is entailed by the retailer is negligible. The wholesaler has his three-columned invoice headed respectively 33 $\frac{1}{3}$ , 16 $\frac{2}{3}$  and *nil*; at the foot of each column he adds up the total, divides by  $\frac{1}{3}$  or  $\frac{1}{6}$ , and shows the purchase tax to be paid at the bottom of the invoice. Here I admit the point of Mr. Britton's letter: the State must have revenue. Now I want to paint the retailer's picture. Twice or three times weekly he receives from his wholesale patent medicine house a delivery of goods which may easily consist of forty or fifty items; each has to have the cost price worked out and the percentage of purchase tax added and the label fixed. I know some people will say that the new price will soon be appearing on the goods but the time is not yet and many manufacturers never have priced their goods and never will. And this is only one wholesaler. Another point in connexion with this purchase tax is worth considering, though Mr. Britton is not concerned with it. One of the provisions of the tax is to the effect that the retailer must not make more than his pre-purchase tax profit on any article he sells. I buy one dozen toilet rolls for 5s. a dozen and sell them for 7s. 6d. Profit 33 $\frac{1}{3}$ —but if the cost goes up to 15s. a dozen—not too absurd a possibility—I still must make only my 2 $\frac{1}{2}$ d. profit per roll and must collect the same amount, 2 $\frac{1}{2}$ d. purchase tax, for the Government. If this holds good for all our sales I shall not have to worry about saving for income tax next year. I wish I were a wholesaler.

Yours truly,  
Worthing.

H. REYNOLDS.

### The Purchase Tax

SIR,—Reports of discussions at various branch meetings suggest that since the imposition of the purchase tax fresh difficulties are arising continually. So far from the provisions being easy to work, they are likely to afford more anomalies and ambiguities than the Shops or Sunday Trading Restrictions Acts. The chemist's is one of the smallest of the retail trades, and the majority of pharmacies are worked either single-handed or with only one or two assistants; owing to the low rate of turnover the proprietor of one of these is unable to buy goods in quantity, and is obliged to order them from day to day from a sundries house. This is where the multiple concerns get the advantage for some time, as they are able to buy large parcels of all kinds of goods from a central depôt to be distributed to their branches as required. The tax has now been imposed for the first week, and already the chemist has received taxed goods from his wholesalers, this means devising some way of keeping these apart from goods previously in stock, as for instance allotting separate shelves or cupboards to them. Perhaps the best way to distinguish them is to affix a slip label stating

that the article is tax-paid, and giving the new retail price. This should save verbal explanations to customers. It is unfortunate that this statement has been made that there are substantial stocks in hand and that the public should be able to obtain goods at the lower untaxed price for a considerable time to come (*C. & D.*, October 26, p. 22). This may be true in the case of the larger concerns, but evidently no account was taken of the usual business practice of the small retail and already customers are quoting this statement when offered articles that have, in fact, been delivered since October 21 and on which the tax has been paid. Further, if they refuse the article and go to a store it is quite probable they will get it at the old price, and their awakened idea that the chemist was a profiteer becomes a certainty. Thus, in addition to losing the sale, he also loses a customer. There is always present the chance that the customer may also consider his duty to report the matter to the local committee, when the chemist will have the trouble of producing his invoices and identifying the particular goods with them to prove his case, involving a fresh loss of time and money.

Yours faithfully,

TAXATION (26/10).

### A Medicine Stamp Duty Repeal Problem

SIR,—The announcement of the Chancellor of the Exchequer that he will repeal the medicine stamp duty in his next Budget (*C. & D.* November 2, p. 240) has doubtless been made because the new purchase tax has imposed a double duty on proprietary medicines. But if the medicine stamp duty is abolished, a situation will arise with regard to the prices of these remedies, both wholesale and retail, which will be watched by chemists with a special interest. Leaving out of the question the purchase tax, which is added as a separate item not to be reckoned when fixing the retail profit, the disappearance of stamp duty will mean that a proprietary retailing at 1s. 3d. should revert to its actual selling price of 1s. Will the manufacturers lower the retail price by the cost of the stamp, or will they still adhere to the original figure of 1s. 3d.? And if they do keep the price the same as before, what one is to say to the customer who points out that the threepenny tax was intended to go to the Revenue and not to the manufacturer. When destamping became general for proprietaries sold by chemists the cost of the stamps was not deducted from the wholesale price, and chemists were weak enough to accept this without making any effective protest, thus endangering their long-established concession for "known, admitted and approved" remedies, but I imagine other groups of traders will not be so complaisant, and they will raise strong objection unless the amount saved is deducted from the wholesale price.

Yours faithfully,

STAMPLESS (2/11).

## POINTS FROM LETTERS

### Farthings on Items under Purchase Tax

Farthings have always been considered the prerogative of the drapery trade. Chemists . . . have no farthings, do not want farthings, will not take farthings, or give packets of pins in lieu of farthings.—*Denarius* (14/11).

### Trade Conditions in Scotland

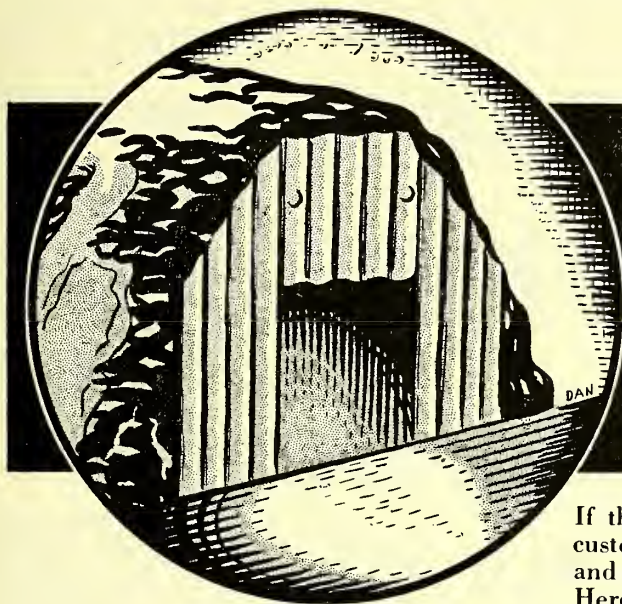
N.H.I. accounts in Scotland are now being paid a little earlier, but there is need for further speeding-up. One can see no need for withholding payment for longer than one month, whereas at present three and sometimes nearly four months elapse between dispensing the prescriptions and receiving the payment.

The aggressive traveller is now a rarity, but recently such a gentleman has been doing the rounds in Scotland, "pushing" surgical dressings at so-called bargain prices, and telling the gullible that the Government is going to requisition two-thirds of all chemists' stocks of surgical dressings, and that in fact "Mr. So-and-so has already been notified by the authorities to that effect." His motive seems to be to get the chemist to order phenomenal quantities of such goods, but from my observations he does not find the average Scot ready to rise to the bait. All reasonable orders for surgical dressings from reputable houses are being filled without difficulty.—*Scotia* (19/11).

### Value of Professional Services

The letter from the Pharmaceutical Society to the Councils of the Metropolitan boroughs (*C. & D.*, November 16, p. 265) offers the services of pharmacists in a capacity for which they are eminently fitted. Members will endorse the Society's action, but there seems to be something wrong with the general situation when the frequently offered services of pharmacists are no less frequently turned down, whereas the services of medical men are both sought after and paid for on an adequate and even handsome scale. Chemists have constantly shown themselves willing to give of their best in a time of national emergency, but it may be that if they placed a higher valuation on their services they would find themselves more highly esteemed, both by the general public and in official quarters.—*Specialist* (19/11).





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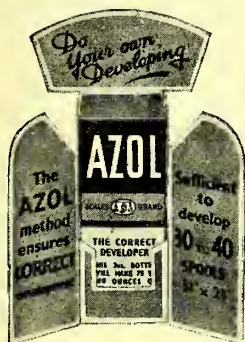
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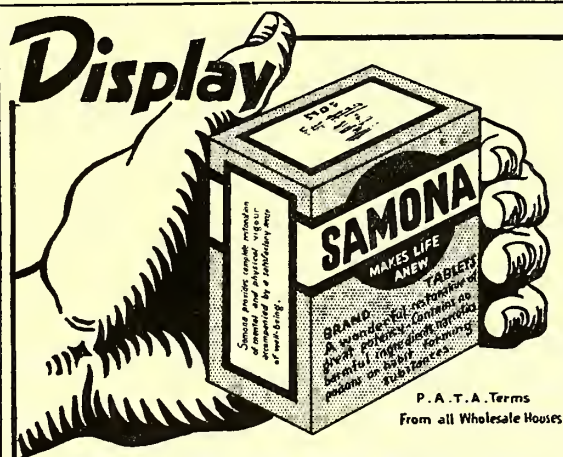
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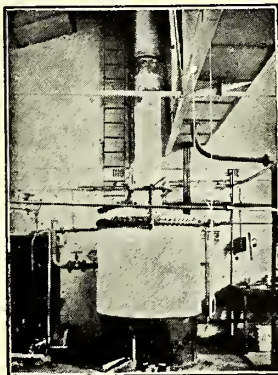


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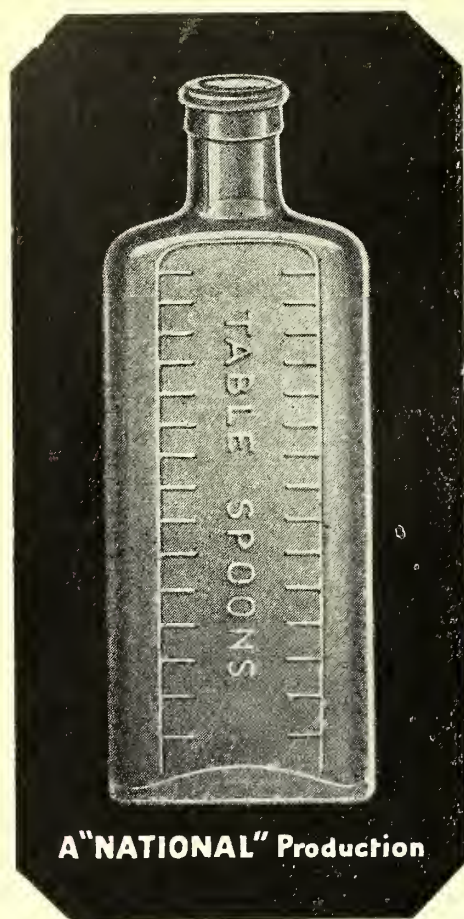
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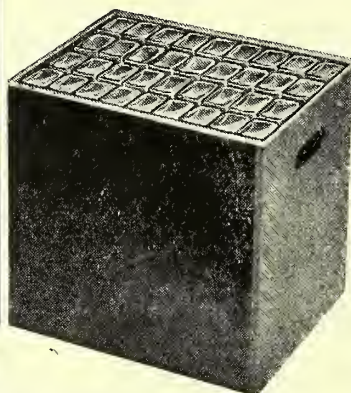
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NON - RETURNABLE CARTONS**

- ★ CONVENIENT IN SIZE
- ★ EASY TO HANDLE
- ★ UNIFORM IN QUANTITY

ALSO . . . Cork mouth Bottles  
WASHED & PAPERED  
Screw mouth Bottles  
WASHED & CAPPED

SCREW CAPS SUPPLIED in

WHITE - ENAMELLED TIN PLATE  
WHITE - ENAMELLED ALUMINIUM  
BLACK BAKELITE MOULDED



## Vials

HAVE YOU GOOD STOCKS OF  
**"NATIONAL" VIALS?**

Ranging in size  $\frac{1}{2}$  oz. up to 3 oz.  
Plain or teaspoon graduations  
Medium & tall types

MANUFACTURED IN BEST QUALITY  
WHITE FLINT, AND PACKED IN FREE  
NON-RETURNABLE CARTONS



May we advise Name and Address of nearest "NATIONAL" distributor?

**NATIONAL GLASS WORKS (YORK) LTD.**

105 HATTON GARDEN, LONDON, E.C.1

(WHOLESALE ONLY)

WORKS:  
FISHERGATE, YORK



# The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

28 ESSEX STREET, LONDON, W.C.2

NOV. 23  
1940

## IMPORTANT TO SUPPLEMENT ADVERTISERS

Instructions for supplement advertising are now accepted in London and at Bath. London press times have been advanced to first post WEDNESDAY morning of week of issue but instructions will still be accepted up to first post THURSDAY morning if sent to Bath.

### THIS IS THE TARIFF

AGENCIES,  
GOODS FOR SALE,  
PARTNERSHIPS,  
PATENTS,  
PREMISES TO LET,  
FOR SALE or WANTED

7/6 for 36 words or less,  
2d. for every additional  
word.

SITUATIONS { 2/6 for 18 words or less, 1d.  
WANTED { for every additional word.

Advertisements received after these times will not be inserted until the following week. All advertisements should be prepaid and to avoid disappointment send your instructions as early in the week as possible to

THE CHEMIST AND DRUGGIST, THE PITMAN PRESS, BATH  
or to London Office at 28 Essex Street, Strand, London, W.C.2.

LEGAL NOTICES,  
SALE BY AUCTION,  
TENDERS—AND ALL  
SPECIALLY SPACED  
ANNOUNCEMENTS

1/9 per nonpareil line.  
(12 lines=1 inch, single  
column.)

BUSINESSES for  
DISPOSAL  
BUSINESSES WANTED  
SITUATIONS OPEN

7/6 for 40 words or less,  
2d. for every additional  
word.

BOX OFFICE NUMBER  
1/- EXTRA

EXCHANGE COLUMN { 2d. per word  
(for Retailers, etc.) { minimum 3/-

MISCELLANEOUS SECTION  
(for Wholesalers, etc.),  
for odd and second-hand  
lots.

12/6 for 60 words or  
less, 1/- for every addi-  
tional 10 words or less.

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YOU NEED UP-TO-DATE INFORMATION ON  
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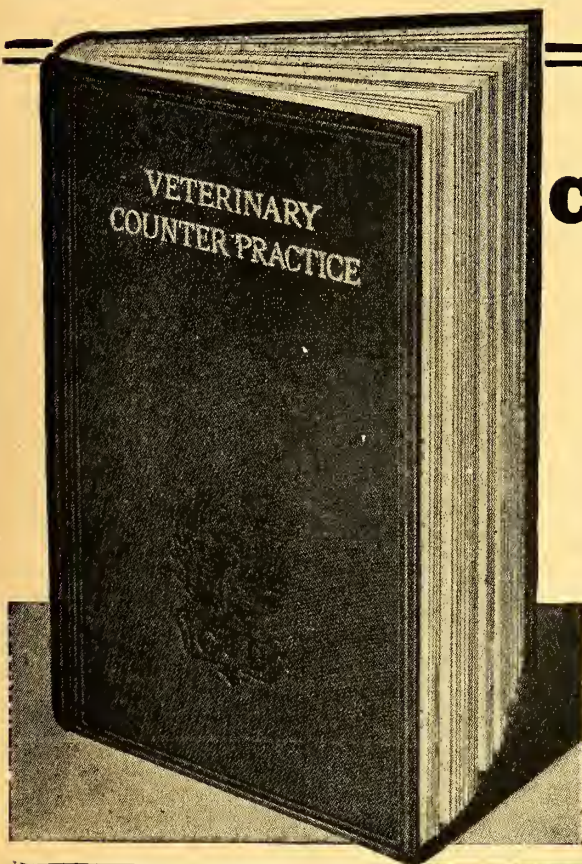
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The Publisher

**THE CHEMIST AND DRUGGIST**  
28 ESSEX STREET, STRAND, LONDON, W.C.2

ORDER A COPY TODAY





## SITUATIONS OPEN

## RETAIL (HOME)

**B**RISTOL Children's Hospital. Assistant Dispenser required. Apply, stating experience and salary, to Secretary. Endorse envelope "Dispenser."

**C**CHESTER CO-OPERATIVE SOCIETY, LTD. Chemist Optician. Applications are invited from Qualified Chemist Opticians for the position of Resident Manager of new Pharmacy. Applications stating age, present position and qualifications should reach General Manager, 3 Forest Street, not later than Monday, 2nd December. Endorse envelope "Chemist."

## LEICESTER ROYAL INFIRMARY

**A**SSISTANT Pharmacist (Male) required. Salary £200 per annum; extra pay for V.D. Clinic dispensing. Federated Superannuation Scheme in force. Applications stating age, experience, and accompanied by copies of testimonials to be forwarded before December 1 to House Governor and Secretary.  
15th November, 1940.

**L**ONDON, W.1, and Home Counties: Junior Qualified and Unqualified Assistants required for high-class businesses. Excellent opportunity to obtain really first-class experience with good prospects. Full particulars in first letter; age, height, experience, salary expected and when free, to 372/611, London Office of this Paper.

**L**ONDON CO-OPERATIVE SOCIETY, LTD., require the services of several experienced female unqualified Pharmacy Assistants in the Hayes and Willesden areas. Applications in first instance to Pharmacy Manager, 24 Martin Street, Stratford, London, E.15.

**O**XFORD. Savory & Moore require a Junior qualified or unqualified Assistant for their branch at 108 High Street, Oxford. Full particulars to the Manager, Mr. T. Read, at that address.

**A**NDERSON & VIRGO have a Vacancy for a Lady Assistant, who has a general knowledge of the Business, Dispensing, Counter Work, etc. Apply, full particulars, to 12 The Foregate, Worcester.

**A**SSISTANT Pharmacist required by Middlesex County Council. Applicants must hold one of the qualifications of the Pharmaceutical Society. Salary £200, rising to £250 p.a. plus cost of living bonus. Whole-time duty under medical superintendent and pharmacist. Unestablished. Application to Medical Superintendent, "LI" County Sanatorium and Emergency Hospital, Clare Hall, South Mimms, near Barnet, Herts. No application forms provided. Relationship to any member or officer of Council to be disclosed. Copies of not more than three recent testimonials to be enclosed. Canvassing directly or indirectly will disqualify. Closing date, November 30.

**B**OOTHS THE CHEMISTS have vacancies in London for well-trained Male Unqualified Assistants, between the ages of 30 and 38. Applications to Boots the Chemists, Retail Staff Department, Nottingham.

**I**NVOICE Clerk required for London Wholesale Druggists. Write, stating experience, etc., 365/381, London Office of this Paper.

**M**ALE Assistant required, aged 30-35, for Dispensing and high-class business; also to relieve at branches when required. Permanency. State full particulars as to age, salary, when disengaged, references and experience. P. Jeyes & Co., Ltd., The Drapery, Northampton.

**M**ANAGER. Qualified, male, age about 35. Must be competent, reliable and energetic, with good all-round experience and capable of taking full charge of good-class country business, established over a century, doing a very brisk trade. Permanent post in a comparatively safe area is open for the right man. Apply, with full particulars, by letter only to Bates & Hunt, New Street, Wellington, Salop.

**P**HARMACY DEPARTMENT. Unqualified Male Assistant required; permanency. Please state age, experience, salary required, and when free, to Manager, Pharmacy Department, Ipswich Industrial Co-operative Society, Ltd., 38 Carr Street, Ipswich. Endorse envelope "Unqualified Assistant."

**Q**UALIFIED Assistant required for Dispensing and Counter. Write, giving age, experience and salary required, to Staff Office, Welwyn Stores (1929), Ltd., Welwyn Garden City, Herts.

**Q**UALIFIED Assistant required, over 30 years of age, for Drug Department, to replace Assistant joining R.A.M.C. Apply, stating age, experience, salary required and when free, to arrive first post Wednesday, November 27. Addressed: Secretary, Batley Co-operative Society, Ltd., Batley, Yorks.

**S**MART unqualified Junior required for good-class Dispensing Business. Photo if possible. Apply to S. A. Sheard, 9 Leeds Road, Harrogate.

**T**ABLET Maker and Sugar Coater wanted for London Wholesale Druggists. 365/382, London Office of this Paper.

**U**NQUALIFIED Assistant required for Dispensing and General Duties, in good class country business. Full particulars and salary asked in first letter to: Massey, 16 Epsom Road, Guildford.

**W**ANTED, immediately, Unqualified, over 30 (temporary); 8 weeks at least. Counter, Stock, Dispensing. Give full particulars in first instance, to S. J. Lisney, 21 High Street, Redhill, Surrey.

## WHOLESALE

**L**ANCASHIRE and Yorkshire. Biologicals, first-class House requires Propaganda-salesman to call on Medical Profession, Hospital, and Retail Trade. Car owner preferred; salary, commission, and expenses. Apply, with recent photograph, stating age, particulars of experience, present salary, etc., 372/614, London Office of this Paper.

**M**EDLANDS and S. Wales. Old-established Manufacturing House requires the services of a Representative with some Retail experience, to work and extend existing connexion. State territory covered, experience and nature of goods previously carried, age, remuneration required and when available, all in first letter, which will be treated in confidence. CDB/243, London Office of this Paper.

**A**CTIVE Representative required by manufacturers of Surgical Bandage. National advertised product. A live connexion with retail chemists in counties of Nottingham, Derby, Leicester, Lincoln, Stafford, Northants essential. Salary, expenses and commission with £1,000 a year possibilities. Write stating age, experience to Sales Director, Griffiths & Associates, Ltd., 1-3 Earl Street, Bristol, 1.

**A**SSISTANT Chemist, exempt from service, is offered good permanent position and prospects by distiller of essential oils synthetic flavourings. State age, qualifications, salary required to 372/622, London Office of this Paper.

**A** Lady required for Laboratory Work in Fruit Essence Distillery in London. Pharmaceutical experience would be an advantage. Write stating age, experience and salary desired, to 372/613, London Office of this Paper.

**C**HEMIST for Analytical Laboratory and Charge Hand for Galenical Manufacturing Laboratory. Particulars to 372/615, London Office of this Paper.

**C**LERKS required, men or women. Need not necessarily have had previous experience but aptitude for figures and suitability for clerical work essential. Reply to Office Manager, The British Drug Houses, Ltd., London.

**C**OSMETICS and Synthetic Perfumery. Competent Compounder wanted by Manufacturing Chemists and Perfumers, Liverpool. Apply CDB/232, London Office of this Paper.

**E**XPERIENCED Process Worker for Galenical Manufacture by London House of Wholesale Chemists. Details of experience, age, remuneration required to 372/608, London Office of this Paper.

**I**NVOICE Clerk, Female, required immediately for small city Wholesale firm. Knowledge of patents, toilets and sundries essential. Good position for capable person. State salary and when free. 372/618, London Office of this Paper.

**L**ONDON Manufacturing Chemists require Chemist. Ph.C. and other qualifications an advantage. Excellent prospects for man with experience in Organic Synthetic Chemistry. Methodical worker, able to work and control staff. Full details, salary expected to 372/619, London Office of this Paper.

**M**ALE Assistant to Director required in small firm of Pharmaceutical and Food Manufacturers. Interested in the selling and advertising of established lines and in the marketing of new. A knowledge of export would be advantageous. Full particulars, together with age and salary required, to 372/610, London Office of this Paper.

**M**ANAGER, qualified, for small manufacturing business in Yorkshire. Capable of controlling staff and able to develop the Manufacturing side of the business. Mainly Medical trade, but one with initiative would find ample scope for development. Reply stating age, experience and salary required to 372/620, London Office of this Paper.

**M**FTG. CHEMISTS have immediate vacancy for skilled Tablet Maker, able to granulate and compress high-grade Tablets. Salary £5 weekly and bonus on production. Sweetule Products, 5 Cathedral Yard, Manchester, 3.

**A**PPLICAT invited experience in ceutical Wh Apply (by career and SD, c/o Gl Middlesex.

**R**EPRESENTAT and past reco goods. Invoiced Commission. Write 372/616, London O

**T**ABLET Coater ( for London fir this Paper.

**T**ABLET Coater th Permanent pos giving full particu H. & T. Kirby & C

**T**RAVELLER call Remedy. Very "Nervomax," 97 H

**T**RAVELLERS w all counties Br commission paid. CDB/240, London

**T**RAVELLER fo preferred, for L and salary required

**W**RIGHT, LAYM Hands immed details experience t S.E.1.

## SPECIAL

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Orders, toge sent to The & Druggist,



## SITUATIONS WANTED

## RETAIL (HOME)

**EXPERIENCED** Qualified Manager, highest references, disengaged shortly. "Chemist," 2 Park Way, Ruislip, Middlesex.

**LADY** Dispenser Book-keeper requires post with Doctor or Chemist (London, E.). Last position ten years. Excellent references. CDB/247, London Office of this Paper.

**MANAGER**, 59, Qualified, prescriber, anywhere, well recommended, windows, N.H.I., photo, vet. B., 36 Gipsy Lane, Nuneaton.

**PHARMACIST** (26), married, desires permanency; good all-round experience, West End and Suburbs; 4 years with present employers. 2 Market Parade, Barkingside.

**PHARMACIST** (21½) seeks Position either permanent or locum; free now. "Pharmacist," c/o Pollard, East Harling, Norwich.

**PHARMACIST**, married, tall, with personality, desires Management. London experience. Suburban. Kent preferred but not essential. Free now. CDB/245, London Office of this Paper.

**QUALIFIED** (28), requires situation as Manager or Assistant. Good references. F. P., 18 Queens Road, Hounslow.

**QUALIFIED** (27), with good all-round London experience, desires post as manager; experienced in buying and in window-dressing; excellent references; free shortly. CDB/231, London Office of this Paper.

**QUALIFIED** efficient Lady Assistant (28) requires full or part time situation in London, where comprehensive all-round business ability appreciated. CDB/239, London Office of this Paper.

## WHOLESALE

**ADVERTISER** with exceptional experience in all branches of Wholesale. Used to control. Buying for Home and Export. Practical Worker in all machine-made products; disengaged; excellent references. CDB/244, London Office of this Paper.

**ADVERTISER** calling many years on London Wholesale Chemists, Hairdressers, Sundriesmen, and Stores for Toilet Brush House of world repute, now open to handle additional line. Service, 372/617, London Office of this Paper.

**EX-PROPRIETOR** Pharmacist requires Post as Representative, agent or other employment. CDB/241, London Office of this Paper.

**PROGRESSIVE** Position in Wholesale Trade. Qualified (26). Write "Salesman," 46 Denison Road, Victoria Park, Manchester.

**REPRESENTATIVE** with established connexion Chemists South and West England and S. Wales, open to represent additional good House. Commission basis preferred. Own car. CDB/246, London Office of this Paper.

**TABLET** Maker and Sugar-coater seeks situation out of London. Charge hand or Foreman; over military age. Reg. for poisons. 372/621, London Office of this Paper.

## ARE YOU UNEMPLOYED AS A DIRECT RESULT OF THE WAR? IF SO, READ THIS

In order to assist employees who have lost their employment, either through enemy action or through businesses being closed down in defence areas, a scheme of free advertisements in the "Situations Wanted" column of this Supplement will be available until further notice.

Any such employee of a retail pharmacist whether qualified or not, or any employee of works producing or distributing products in connexion with the drug and associated industries is invited to make full use of this facility without charge.

Advertisements should be accompanied by particulars of last employment and cause of its termination, and should be addressed to The Publisher, The Chemist and Druggist, The Pitman Press, Bath, to arrive not later than WEDNESDAY morning of week of issue.

## WANTED

**FIRM** wanted for Coating with Zinc Oxide large quantities of our white wool felts. If possible quote per yard 18 in. wide to CDB/236, London Office of this Paper.

**PILL MIXER**, second-hand, 4-10 lb. capacity, hand or power. Also Pill Rounder. CDB/214, London Office of this Paper.

**PRIVATE** Chemist doing large Toilet Trade wishes to purchase quotas for next six months of Chemists in defence areas. State approximate turnover and special agencies held and suggested terms. CDB/237, London Office of this Paper.

**SUNBEAM** Shavemaster Electric Razor. CDB/242, London Office of this Paper.

**WANTED**. Liquorice Juice in any form, or Glycyrrhizin. State quantity, and price. Walton, Chemist, Batley.

## BUSINESS OPPORTUNITY

**POSITION** vacant for experienced Pharmacist with previous knowledge of ethical sales and production, for old-established manufacturing chemists in the South of England. Excellent prospects for energetic and live man. Good salary and interest in the business. Reply, stating qualifications and copy testimonials, to 372/612, London Office of this Paper.

## MISCELLANEOUS

**LIMITATION** of Supplies. Section 16. Reputed firm prepared to purchase quota for period commencing December 1. Reply in confidence. CDB/248, London Office of this Paper.

**THE** Owner of Patent No. 359770 for IMPROVEMENTS IN MOISTURE AND AIR-PROOF PACKAGES PARTICULARLY SUITABLE FOR MEDICINAL TABLETS wishes to meet all demands for the patented article and invites inquiries from manufacturers and others in Great Britain prepared to assist in the commercial exploitation of this invention. Address in first instance, Messrs. Dicker, Pollak, Mercer, Tench & Meyer, Chartered Patent Agents, 20-23 Holborn, London, E.C.1.

## EXCHANGE COLUMN

## FOR DISPOSAL

**CHEMICAL** Balance, Sartorius, 200 gr. Perfect condition and weights. £11 10s. cash. Dr. M., 105 Buckland Way, Worcester Park, Surrey.

## LATE NEWS

**Commodity War Risk Insurance.**—The Board of Trade have, with the approval of the Treasury, decided that in respect of the period beginning December 3, 1940, and ending March 2, 1941, the rate of premium payable under any policy of insurance issued under the Commodity Insurance Scheme shall be 7s. 6d. per cent. a month. This is an increase of 2s. 6d. per cent. on the rate at present in force.

## Proprietary Articles Trade Association

**Additions and Alterations to Protected List.**—Anglo-American Pharmaceutical Co., Ltd., Tubelette menthol and wintergreen cream, 3s. 6d. size, 25s. 9d. doz., plus purchase tax, 4s. 3d. doz. Prices therefore remain at 3s. 6d., 30s. doz., including purchase tax. Bayer Products, Ltd., Carbozerin tablets, tins of fifty; new price including purchase tax: 2s. 9d., 23s. 4d. doz. British Cod Liver Oil Producers (Hull), Ltd., Seven Seas brand cod liver oil capsules, 1,000, 39s., 312s. doz. Dimol Laboratories, Ltd., Dimol paraffin, 4-oz., 1s. 6d., 12s. 7d. doz.; 8-oz., 2s. 6d., 21s. doz. Jests, Ltd. (c/o Ex-Lax, Ltd.), Jests, new size price, including purchase tax: 2s. 3d., 21s. doz. Ki-Uma, Ltd., Ki-Uma brand plasters (single, 9 in. x 9 in.), price including purchase tax: 3s. 11d., 36s. 6d. doz. Nunol, Ltd., Nunol, 1s. 6d., 13s. 6d. doz.; 2s. 6d., 22s. 6d. doz.; 4s. 6d., 40s. 6d. doz.; 6s. 6d., 58s. 6d. doz.; 11s. 6d., 103s. 6d. doz. John Steedman & Co., Steedmans' powders and Faulconer's worm powders, prices including purchase tax: 1s. 3d., 11s. 8d. doz.; 3s. 6d., 32s. 8d. doz.; single powders, 1½d. each or two for 3½d.

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## GUIDE

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## WAR-TIME UNEMPLOYMENT SITUATIONS WANTED

The advertisements in this section are inserted free and are from advertisers who have lost their employment as a direct result of the war.

Prospective employers are requested to give them special consideration

*Advertisers in this Section should advise us immediately employment has been secured.*

### RETAIL

**ASSISTANT**, Unqualified, married, 36 years of age. Good all-round experience Dispensing and Counter. South Wales preferred. Free now. Thomas, 9 Woodland Road, Barry Dock, South Wales.

**ASSISTANT**, unqualified, over 40, married, under notice because of enemy action, thoroughly capable all-round man of exceptional experience in all branches, retail, pathological laboratory, wholesale, optics, journalism; ex R.A.M.C. 1914-1919 and 1939-1940. Good organising ability and used to responsibility. Now getting £4 a week. A. C. Rusling, c/o Goosey & Rogers, 51 Ben Jonson Road, Stepney, London, E.1.

**ASSISTANT**, Unqualified, Dispensing and Counter experience. Disengaged. Lancashire or near. W., 3 Morley Road, Craig-y-don, Llandudno.

**CAPABLE** Manager, good London experience, at present unemployed, seeks post where facilities for optical experience are available. CDB/201, London Office of this Paper.

**COMPETENT** Pharmacist (31), seeks responsible position. Locum or Permanency. Smart appearance, well spoken, public school education. Thoroughly experienced all branches of the profession. Possessed of great initiative, able to control staff, good stock-keeper, keen buyer. Last 8 years managerial experience in City and West End of London. Knowledge of French and German. Highest references. Leeds district preferred. CDB/177, London Office of this Paper.

**CHEMIST** (35), married, desires permanency or Locum, Leeds or West Riding. 12 years' managing in London. Thoroughly experienced in all branches of the trade. "Chemist," 26 Mexborough Grove, Leeds, 7.

**EXPERIENCED** Unqualified Assistant, male (37), married, seeks responsible post in middle-class Pharmacy, Cornwall area preferred, excellent testimonials, free now. CDB/221, London Office of this Paper.

**EXPERIENCED** Assistant (34), unqualified, 8 years West End business. Previously middle-class trade. Dispensing, window-dressing and counter. Also good knowledge of Optics. Used to taking charge. Enemy action necessitates change. North London or St. Albans, Central or West End London, West of England, or North Wales. Free at short notice. Jones, 57 Lincoln Avenue, London, N.14.

**LADY** Dispenser-Bookkeeper, unqualified, requires post with doctor or retail chemist. Experienced, good reference. Permanency or part-time. CDB/215, London Office of this Paper.

**LADY** Dispenser-Bookkeeper (Hall) requires post with Doctor or Hospital; experienced; good references; free now. Hulme, 27 Marshall Avenue, Bognor Regis.

**LADY** M.P.S.I. seeks post as Assistant in Hospital, with doctor, or retail chemist. Nine years' experience. London or country. Apply, Advertiser, 43 Warren Court, N.W.1.

**PHARMACIST** (34), Scot; married. Disengaged owing to closing down in defence area, wishes post as Manager or Assistant in Scotland. Manager for past 8½ years. Free now. CDB/172, London Office of this Paper.

**PHARMACIST** (24), married, Manager, desires post as Manager or Assistant. Surrey preferred. CDB/190, London Office of this Paper.

**PHARMACIST** (34), married, seeks responsible post. Medical Representative, wholesale or retail; high-class retail experience all branches; Aldershot or Guildford preferred. CDB/180, London Office of this Paper.

**PHARMACIST** (25), situation terminating through bomb damage; experienced in all types retail pharmacy, but mainly middle-class. Can manage single-handed. CDB/200, London Office of this Paper.

**PHARMACIST** (32), married, Scot, manager for 8 years in London, wishes post as Manager or Assistant anywhere in Scotland. Experienced all branches retail. "Pharmacist," 3 North Street, Forres.

**PHARMACIST** or Chemist-Optician (36), 11 years successful manager defence area; now disengaged, requires post. Thoroughly capable and experienced all branches pharmacy and optics. O.B.A.C. Register. Tall, energetic, dependable. CDB/213, London Office of this Paper.

**PHARMACIST** (32), Junior; height 5 ft. 11 in., desires Hospital, Wholesale, or Retail post, anywhere; excellent testimonials; sate (moderate) salary. CDB/235, London Office of this Paper.

**QUALIFIED** Chemist desires situation (owing to loss of situation through enemy action). Age 48 years, unmarried, accustomed to management. In present situation 2½ years. CDB/219, London Office of this Paper.

**QUALIFIED** (38), good-class Dispensing and Retail experience, as Assistant or Manager, London or suburbs; 6 years last position. CDB/174, London Office of this Paper.

**QUALIFIED** Chemist, long experience Medical and Dental propaganda, also Sales and Retail Trade, having lost post through war conditions, urgently requires to hear of a vacancy where long and comprehensive experience is an asset; or capable of taking full charge of retail business. CDB/234, London Office of this Paper.

**UNQUALIFIED** Assistant, over military age, married, 18 years' retail experience, Dispensing, Counter, and Window-dressing. City or W.2 preferred. CDB/233, London Office of this Paper.

**UNQUALIFIED** Assistant, varied and long continental experience; last situation Cannes eight years. Fluent French. Age 64, but fit, active and in good health. Competent dispenser. Free now. CDB/238, London Office of this Paper.

**UNQUALIFIED**, 47, married. Indentured apprenticeship. Services, 1914-19. Own business 17 years. Experienced Dispensing, Prescribing, Photographic, etc. Abstainer, non-smoker. Position of trust for duration, any kind, anywhere. London barred. CDB/220, London Office of this Paper.

**YOUNG** Lady Secretary-Dispenser (Hall), requires post with Doctor or Retail Chemist. Several years' experience; can drive car. London or country. Excellent references. CDB/173, London Office of this Paper.

### WHOLESALE

**PHARMACEUTICAL** Chemist, 48 years of age. Knowledge of all branches of Pharmacy and the Drug trade. Experience as Works Manager and Chemist, also in Medical Propaganda and Sales for several years. Prepared to go anywhere. Excellent health and acquainted with all England and Wales. CDB/205, London Office of this Paper.

**PROPRIETOR** (39), business ruined by enemy action, desires to enter wholesale trade with view to Representation in the West Country. 371/569, London Office of this Paper.

**REPRESENTATIVE**, 6 years both Retail Manager and Representative for exclusive West End perfumery house, seeks re-employment. Keen and well spoken. Age 43. Good-class house only. Drugs, proprietaries, etc. Own car. CDB/179, London Office of this Paper.

**REPRESENTATIVE**, disengaged owing to war, seeks progressive position; 6½ years with present firm. Good sales record. Age 43. CDB/189, London Office of this Paper.

**REPRESENTATIVE** (55), very fit, disengaged owing to enemy action, lengthy experience perfumery and cosmetics. Excellent references, highest credentials, own car. Well-known London area but would go anywhere. CDB/212, London Office of this Paper.

**TRAVELLER**, or any other suitable occupation at home or abroad. British subject, previously resident in Paris; age 42. Doctor of Pharmacy, fluent French, Arabic, Spanish, and Italian. Highly recommended. Enlisted voluntarily in the British Army in Paris and just discharged from hospital. 370/538, London Office of this Paper.

**WAREHOUSE** Manager (33 years) seeks similar position. Ten years in last situation. Chemists' and Surgical Sundries; keen Buyer; Book-keeper; able to control staff. Experienced appliance fitter. Recent Army discharge after voluntary enlistment, excellent references. London or Provinces. 371/583, London Office of this Paper.





# Monsanto Make

**CARBOLIC ACID**

**CHLORPHENOLS**

**META CRESOL**

**CRESYLIC ACIDS** with controlled  
Meta Cresol content

**ORTHO CRESOL**

**CRESYLIC CREOSOTE**

**DISINFECTANTS, BLACK**

**DISINFECTANTS, WHITE**

**ACROSYL**

**LYSOL-MONSANTO B.P.**

**HIGH BOILING TAR ACIDS**

**PYRIDINE, Pure**

**COUMARONE RESIN**

**PARACHLORMETACRESOL**

**PARACHLORMETAXYLENOL**

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